Owner's Manual

MAGNAVOX
SMART. VERY SMART.

Introduction

Connections

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Recording

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Español

ZV420MW8
DIGITAL VIDEO DISC RECORDER WITH
VIDEO CASSETTE RECORDER

STOP!

THANK YOU FOR CHOOSING MAGNAVOX.

NEED HELP FAST?
READ YOUR QUICK GUIDE AND/OR OWNER'S MANUAL FIRST FOR QUICK TIPS THAT MAKE USING YOUR MAGNAVOX PRODUCT MORE ENJOYABLE.
IF YOU HAVE READ YOUR INSTRUCTIONS AND STILL NEED ASSISTANCE, YOU MAY ACCESS OUR ONLINE HELP AT HTTP://WWW.FUNAI-CORP.COM OR CALL 1-800-605-8610 WHILE WITH YOUR PRODUCT.

INSTRUCCIONES EN ESPAÑOL INCLUIDAS.

MAGNAVOX

VHS HQ   4 HEAD HI-FI STEREO

POWER-ON

DVD RECORDER / VCR ZV420MW8

OPEN/CLOSE   DVD RECORDER

DVD+RW/+R RECORDING

STANDBY-ON   REW F.FWD STOP/EJECT PLAY RECORD   TRACKING D.DUBBING VCR SOURCE DVD STOP PLAY RECORD   S-VIDEO VIDEO L — AUDIO — R

11:34

© 2007 Funai Electric Co., Ltd.

SHOCK, DO NOT EXPOSE THIS

The lightning flash with arrowhead symbol, within an

...ɡerous voltage" within the
product's enclosure that may be of sufficient magnitude
to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is
intended to alert the user to the presence of important
operating and maintenance (servicing) instructions in the
literature accompanying the appliance.

son should remove the cover or attempt to service this device,

.E OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS

PEN AND INTERLOCK DEFEATED. DO NOT STARE INTO BEAM.

Important Safeguards

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1. Read Instructions - All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
EXCEPTION: A product that is meant for uninterrupted service and, that for some specific reason, such as the possibility of the loss of an authorization code for a CATV converter, is not intended to be unplugged by the user for cleaning or any other purpose, may exclude the reference to unplugging the appliance in the cleaning description otherwise required in item 5.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture- Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories - Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PORTABLE CART WARNING
(Symbol provided by RETAC)

S3125A

9. Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
11. Grounding or Polarization - This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

12. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
13. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.
14. Power Lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
15. Overloading - Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
16. Object and Liquid Entry - Never push objects of any kind into this product through any openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
17. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
18. Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
   a. When the power-supply cord or plug is damaged.
   b. If liquid has been spilled, or objects have fallen into the product.
   c. If the product has been exposed to rain or water.
   d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
   e. If the product has been dropped or damaged in any way.
   f. When the product exhibits a distinct change in performance this indicates a need for service.
19. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
20. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
21. Heat - This product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

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Installation Location

For safety and optimum performance of this unit:
- Install the unit in a horizontal and stable position. Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Shield it from direct sunlight and keep it away from devices of intense heat. Avoid dusty or humid places. Avoid places with insufficient ventilation for proper heat dissipation. Do not block the ventilation holes on the sides of the unit. Avoid locations subject to strong vibration or strong magnetic fields.

Avoid the Hazards of Electrical Shock and Fire

- Do not handle the power cord with wet hands.
- Do not pull on the power cord when disconnecting it from AC outlet. Grasp it by the plug.
- If, by accident, water is spilled on this unit, unplug the power cord immediately and take the unit to our Authorized Service Center for servicing.

Moisture Condensation Warning

Moisture condensation may occur inside the unit when it is moved from a cold place to a warm place or after heating a cold room or under conditions of high humidity. Do not use this unit at least for 2 hours until its inside gets dry.

About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.
This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

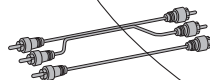## Notice for Progressive Scan Output

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525 (480) progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p (480p) DVD player, please contact our customer service center.

Supplied Accessories

remote control (NB552UD) with batteries (AAAx2)
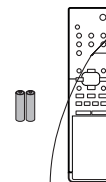
RCA audio/video cables (WPZ0102TM015/WPZ0102LTE01)

owner's manual (1VMN23495)

quick guide (1VMN23496)

CONTENTS

Front Panel

(∗) The unit can also be turned on by pressing these buttons or insert a cassette tape.

1. Cassette compartment (VCR)
Insert a cassette tape here.

2. OPEN/CLOSE ⏏ button (DVD)*
Press to open or close the disc tray.

3. Disc tray (DVD)
Place a disc when it is open.

4. AUDIO input jacks (E2) (DVD/VCR)
Use to connect external device with a RCA audio cable.

5. VIDEO input jack (E2) (DVD/VCR)
Use to connect external device with a RCA video cable.

6. S-VIDEO input jack (E2) (DVD/VCR)
Use to connect the S-video output of external device with an S-video cable.

7. RECORD ● button (DVD)
Press once to start recording.
Press repeatedly to start the one-touch timer recording.

8. PLAY ► button (DVD)*
Press to start or resume playback.

9. STOP ■ button (DVD)
Press to stop playback or recording.
Press to stop the proceeding timer recording in DVD.

10. DVD indicator
Lights up when the DVD output mode is selected.

11. SOURCE button (DVD/VCR)
Press to select the component you wish to operate.

12. VCR indicator
Lights up when the VCR output mode is selected.

13. D.DUBBING button (DVD/VCR)
Press to start VCR to DVD (DVD to VCR) duplication which you set in the main menu.

14. TRACKING ▼ / ▲ buttons (VCR)
Press to adjust the tracking during playback or in slow motion of the cassette tape.
While playback is in still mode, you can adjust the picture blurred vertically.

15. Display
Refer to "Front Panel Display" on page 12.

16. Infrared sensor window (DVD/VCR)
Receive signals from your remote control so that you can control the unit from a distance.

17. RECORD ● button (VCR)
Press once to start a recording. Press repeatedly to start the one-touch timer recording.

18. PLAY ► button (VCR)
Press to start playback.

19. STOP ■ / EJECT ⏏ button (VCR)
**EJECT ⏏ button**
When the unit is in stop mode, press to remove the cassette tape from the cassette compartment.
STOP ■ button
Press to stop cassette tape playback or recording.
Press to stop the proceeding timer recording in VCR.

20. F.FWD ►► button (VCR)
Press to rapidly advance the cassette tape, or view the picture rapidly in forward during playback (forward search).

21. REW ◄◄ button (VCR)
Press to rewind the cassette tape, or to view the picture rapidly in reverse during playback (rewind search).

22. STANDBY-ON ⏻ button (DVD/VCR)
Press to turn on and off the unit.

23. POWER ON indicator (DVD/VCR)
Red LED lights up when power is on.

Rear Panel
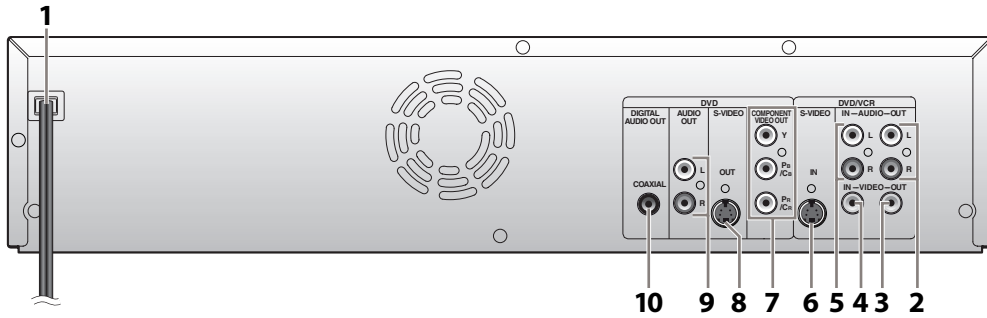
1. AC Power Cord (DVD/VCR)
Connect to a standard AC outlet to supply power to this unit.

2. AUDIO OUT jacks (DVD/VCR)
Use to connect a TV monitor, AV receiver or other device with a RCA audio cable.

3. VIDEO OUT jack (DVD/VCR)
Use to connect a TV monitor, AV receiver or other device with a RCA video cable.

4. VIDEO IN jack (E1) (DVD/VCR)
Use to connect external device with a RCA video cable.

5. AUDIO IN jacks (E1) (DVD/VCR)
Use to connect external device with a RCA audio cable.

6. S-VIDEO IN jack (E1) (DVD/VCR)
Use to connect the S-video output of external device with an S-video cable.

7. COMPONENT VIDEO OUT jacks (DVD only)
Use to connect a TV monitor with component video inputs with a component video cable.

8. S-VIDEO OUT jack (DVD only)
Use to connect the S-video input of a TV monitor, AV receiver or other device with an S-video cable.

9. AUDIO OUT jacks (DVD only)
Use to connect a TV monitor, AV receiver or other device with a RCA audio cable.

10. COAXIAL DIGITAL AUDIO OUT jack (DVD only)
Use to connect an AV receiver, Dolby Digital decoder or other device with a coaxial digital input jack with a digital coaxial cable.

Note

• Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit.

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Remote Control

Installing the Batteries in the Remote Control

Install the batteries (AAAx2) matching the polarity indicated inside battery compartment of the remote control.

Using a Remote Control

Keep in mind the following when using the remote control:
- Make sure that there are no obstacles between the remote control and the infrared sensor window on the unit.
- Remote operation may become unreliable if strong sunlight or fluorescent light is shining on the infrared sensor window of the unit.
- Remote control for different devices can interfere with each other. Avoid using remote control for other device located close to the unit.
- Replace the batteries when you notice a fall off in the operating range of the remote control.
- The maximum operable ranges from the unit are as follows.
  - **Line of sight**: approx. 23 feet (7m)
  - **Either side of the center:** approx. 16 feet (5m) within 30°
  - **Above:** approx. 16 feet (5m) within 15°
  - **Below:** approx. 10 feet (3m) within 30°

16feet (5m)   23feet (7m)   16feet (5m)
30°   30°
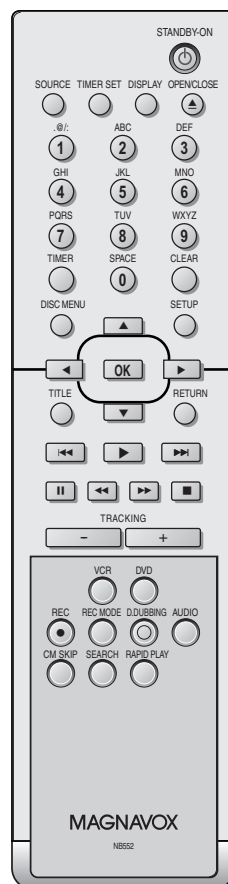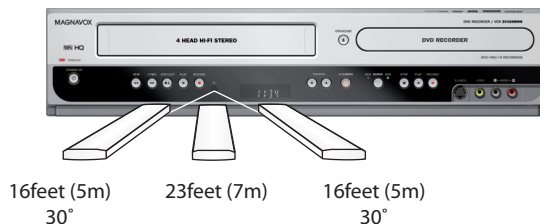
Note

Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:
- Do not mix new and old batteries together.
- Do not use different kinds of batteries together. Although they may look similar, different batteries may have different voltages.
- Make sure that the + and - ends of each battery match the indications in the battery compartment.
- Remove batteries from battery compartment that is not going to be used for a month or more.
- When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country or area.
- Do not recharge, short-circuit, heat, burn or disassemble batteries.

FUNCTIONAL OVERVIEW

1. **DISPLAY button (DVD/VCR)**
   Press to display the display menu on or off.
2. **TIMER SET button (DVD/VCR)**
   Press to set the unit in the timer standby mode. In the timer standby mode, press to cancel the mode and to turn the unit on.
3. **SOURCE button (DVD/VCR)**
   Press to select the appropriate input.
4. **Number/Character buttons (DVD/VCR)**
   • Press to select a title/chapter/track/file on display.
   • Press to enter values for the settings in the main menu.
   • Press to enter title names.
   • Press to start the index/time search in VCR mode.
5. **TIMER button (DVD/VCR)**
   Press to display the timer programming list.
6. **DISC MENU button (DVD)**
   Press to display the disc menu.
7. **OK button (DVD/VCR)**
   Press to confirm or select menu items.
8. **TITLE button (DVD)**
   Press to display the title list.
9. **PREV |◄◄ button (DVD)**
   • During playback, press to return to the beginning of the current chapter, track or file.
   • When playback is paused, press to play back reverse step by step.
10. **REW ◄◄ button (DVD/VCR)**
    DVD mode:
    • During playback, press to fast reverse.
    • When playback is paused, press to play back slow reverse.
    VCR mode:
    • During playback, press to rewind the cassette tape or to view the picture rapidly in reverse.
11. **PAUSE ❙❙ button (DVD/VCR)**
    Press to pause playback or recording.
12. **TRACKING ＋ / — buttons (VCR)**
    • Press to adjust the tracking during playback or in slow motion of the cassette tape.
    • While playback is in still mode, you can adjust the picture blurred vertically.
13. **VCR button**
    • Press to select the VCR output mode.
14. **REC MODE button (DVD/VCR)**
    Press to switch the recording mode.
15. **REC ● button (DVD/VCR)**
    • Press once to start a recording.
    • Press repeatedly to start the one-touch timer recording.
16. **CM SKIP button (DVD)**
    During playback, press to skip 30 seconds.
17. **SEARCH button (VCR)**
    Press to call up the index or time search menu.
18. **STANDBY-ON ⏻ button (DVD/VCR)**
    Press to turn the unit on and off.
19. **OPEN/CLOSE ▲ button (DVD/VCR)**
    DVD mode:
    Press to open or close the disc tray.
    VCR mode:
    Press to remove the cassette tape from the cassette compartment.

20. **CLEAR button (DVD/VCR)**
    DVD mode:
    Press to clear the password once entered or to cancel the programming for CD or to clear the selecting marker number in the edit menu, etc.
    VCR mode:
    Press to reset the tape counter.
21. **SETUP button (DVD/VCR)**
    • Press to display the main menu.
    • During DVD playback, press and hold for more than 3 seconds to switch the progressive scanning mode to the interlace mode.
22. **Cursor ▲ / ▼ / ◄ / ► buttons (DVD/VCR)**
    Press to select items or settings.
23. **RETURN button (DVD/VCR)**
    Press to return to the previously displayed menu screen.
24. **PLAY ► button (DVD/VCR)**
    Press to start or resume playback.
25. **NEXT ►►| button (DVD)**
    • During playback, press to skip to the next chapter, track or file.
    • When playback is paused, press to play back forward step by step.
26. **FFW ►► button (DVD/VCR)**
    DVD mode:
    • During playback, press to play back fast forward.
    • When playback is paused, press to play back slow forward.
    VCR mode:
    • During playback, press to rapidly advance the cassette tape or view the picture rapidly in forward.
    • When playback is paused, press to view the cassette tape in slow motion.
27. **STOP ■ button (DVD/VCR)**
    • Press to stop playback or recording.
    • Press to exit from the title list.
28. **DVD button**
    • Press to select the DVD output mode.
29. **AUDIO button (DVD/VCR)**
    DVD mode:
    • During playback, press to display the audio menu.
    VCR mode:
    • During playback a HiFi video tape, press to change the audio out setting HiFi and mono.
30. **D.DUBBING button (DVD/VCR)**
    Press to start VCR to DVD (DVD to VCR) duplication which you set in the main menu.
31. **RAPID PLAY button (DVD)**
    During playback, press to playback in a slightly faster/slower mode with keeping the audio quality.

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Note
• If you turn off this unit, **[OPEN/CLOSE ▲]** on the remote control is not available.
Be sure to use **[OPEN/CLOSE ▲]** or **[STOP ■ / EJECT ▲]** on the unit.

Front Panel Display
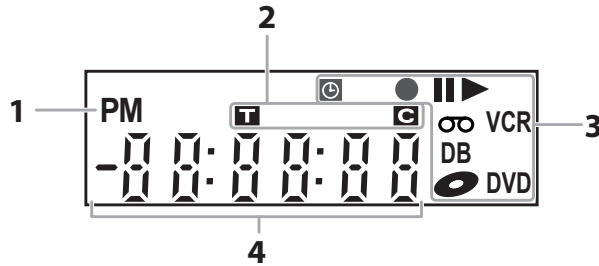
1.

PM : Appears in the afternoon with the clock display.

2. Title / track / file and chapter mark

T : Appears when indicating a title / track / file number.

C : Appears when indicating a chapter number.

3. Current status of the unit

⏸ : Appears when playback is paused.

▶ : Appears when playing back a disc.

⏲ : Appears when the timer programming or OTR has been set and is proceeding.
: Flashes when all timer recordings have been finished.

● : Appears during recording process.
: Flashes when a recording pauses.

⊘ : Appears when this unit is in DVD output mode and a disc is in the unit.
: Appears during duplication process.

ᴑᴑ : Appears when this unit is in VCR output mode and a cassette tape is in the unit.
: Appears during duplication process.

VCR : Appears when this unit is in VCR output mode.
: Appears when the timer recording is proceeding in VCR.
: Appears when VCR is in the timer recording standby mode.
: Flashes when a program cannot be performed for some reasons.

DVD : Appears when this unit is in DVD output mode.
: Appears when the timer recording is proceeding in DVD.
: Appears when DVD is in the timer recording standby mode.
: Flashes when a program cannot be performed for some reasons.

DB : Appears during VCR to DVD duplication process.
: Appears during DVD to VCR duplication process.

4. Displays the following

- Elapsed playback time
- Current title / chapter / track /file number
- Recording time / remaining time
- Clock
- Selected external input position
- Remaining time for one-touch timer recording

Display Message

 Appears when the disc tray is opening.

 Appears when the disc tray is closing.

 Appears when a disc is loaded on the disc tray.

 Appears when data is being written on a disc.

 Appears when the PBC function is activated. (Video CD playback only. Refer to page 41.)

This section describes how to connect this unit to an external tuner such as cable/satellite box.
• When you change the connections, all devices should be turned off.
• Refer to the manual accompanying external devices for more information.

rear of your TV
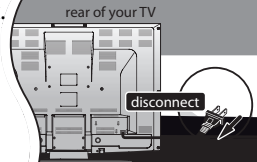
disconnect

1 **Disconnect the power cords of the devices from the AC outlet.**

2 **Make the connection as illustrated below.**

e.g.)

AUDIO IN
L   R   VI

DVD/VCR
S-VIDEO   **IN —AUDIO—OUT**   RCA audio
cable

L

IN   R

IN —VIDEO—OUT
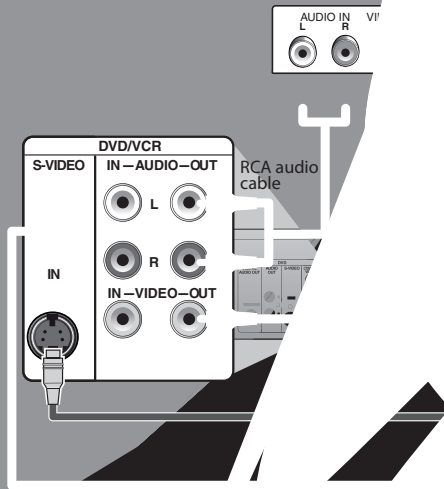
Note
• Required cables and connecting methods differ depending on the external tuner.
  For more information, please contact your external tuner provider.
With this setup:
• You can record any unscrambled channel by selecting the channel on the external tuner. Be sure that the external
  tuner is turned on.
• Signal from the external tuner can be output only on CVBS output even when the power of the unit is off.
• **You cannot record one channel while watching another channel.**

3 **Plug in the power cords of the devices to the AC outlet.**

4 **After making the connection as described above, make
sure to select the appropriate video input type by
following the steps in "SETTINGS FOR THE VIDEO INPUT"
on page 14.**

SETTINGS FOR THE VIDEO INPUT

You must let the unit know which video input jack you are using before making a recording.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Video", then press [OK].**
Submenu will appear.

3 **Use [▲ / ▼] to select "Video Input", then press [OK].**

4 **Use [▲ / ▼] to select desired external input position, then press [OK].**

General Setting	
Playback	
Display	Progressive Scan
Video	TV Aspect
Recording	Video Input
Clock	E1 (Rear)
Reset All	E2 (Front)
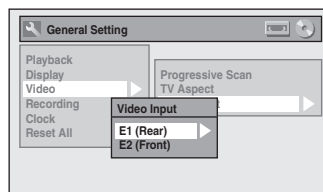
5 **Use [▲ / ▼] to select the input jack type to connect, then press [OK].**
If you want to use VIDEO IN jack, select "Video In".
If you want to use S-VIDEO IN jack, select "S-Video In".
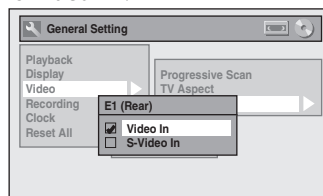
General Setting	
Playback	
Display	Progressive Scan
Video	TV Aspect
Recording	E1 (Rear)
Clock	☑ Video In
Reset All	☐ S-Video In

6 **Press [SETUP] to exit.**

AN AUDIO SYS

Digital Au

audio

D

RCA audio cable

DVD
DIGITAL | **AUDIO** | S-VIDEO | COMPONENT
AUDIO OUT | **OUT** | | VIDEO OUT

Y

L

OUT

COAXIAL

R

P_B/C_B

or

L
IO IN

g au

DIGITAL | AUDIO | S-VIDEO | COU
AUDIO OUT | OUT |

XIAL

L

AU

	Setting	**Setup >General Setting >Playback >Disc Audio >** **Dolby Digital**
olby Digital encoded audio, connect to a Dolby der.		Stream
g to an MD deck or DAT deck.		PCM
nected to any external devices.		PCM

plete these settings, refer to page 73.

e

e DVD AUDIO OUT and DIGITAL AUDIO OUT jacks are only useful in DVD mode.

he audio source on a disc in a Dolby Digital multi channel surround format cannot be recorded as digital sound
y an MD or DAT deck.

By connecting this unit to a Dolby Digital decoder, you can enjoy high-quality Dolby Digital multi channel
surround sound as heard in the movie theaters.

• Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers.

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THE VCR / DVD RECORDER SWITCHING

Because this product is a combination of a VCR and a DVD recorder, you must select first which component you wish to operate with **[SOURCE]**.

DVD mode

Press **[DVD]** on the remote control.
(Verify that the DVD indicator is lit.)

VCR mode

Press **[VCR]** on the remote control.
(Verify that the VCR indicator is lit.)

DVD indicator

SOURCE button

VCR indicator

VCR button

DVD button
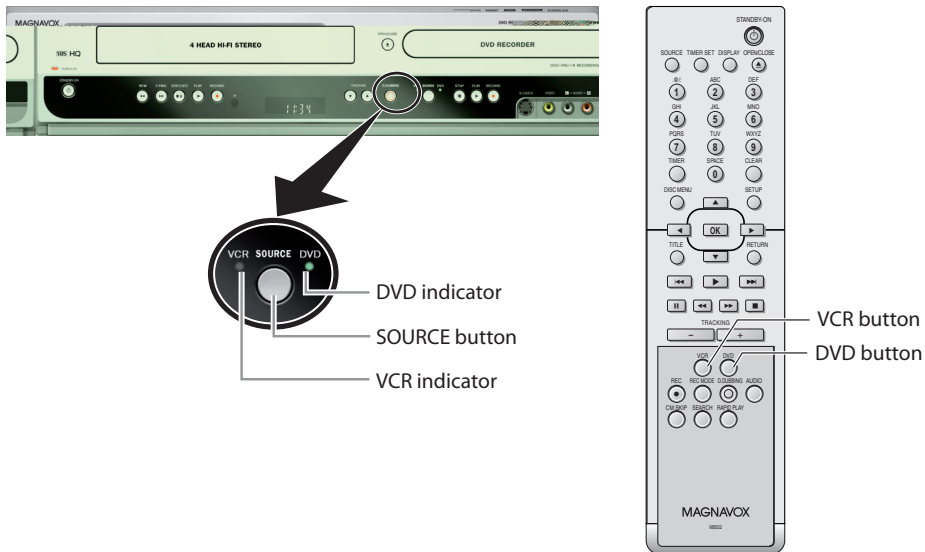
Note
• You cannot switch to another mode (DVD or VCR) during in the timer-standby mode.

GUIDE TO ON-SCREEN DISPLAYS AND MENUS

This unit uses the following on-screen displays and menus to guide you to the easy operations.
The on-screen displays give you the information on the loaded disc, the disc/file in playback, etc.
The menus allow you to change the various kinds of settings for playing back, recording, or editing to suite your preference.

On-Screen Display / Menu

The on-screen display changes in the following order as you press [DISPLAY].

```
          ┌─────→ OFF
          │         ↓
          │    Disc Information/Menu
          │         ↓
          │    Title Name Information
          │  (only when DVD+RW/DVD+R/DVD-RW/DVD-R
          │           is in playback)
          │             or
          │    File Name Information
          │  (only when a CD with MP3 files is in playback)
          └─────────────────┘
```

Disc Information / Menu

DVD mode

```
┌──────────────────────────────────────┐
│ T 1/ 5 C 1/ 5 ⏱ 0:01:00 / 1:23:45 ●  │ ← 6
│ ⊘ ◁)) ▭ ◷ ▦ NR ⊕ ☷   DVD Video        │
│                         E1 (Rear)      │
│                                         │
│                                         │
│                                         │
│ ▷                      SP(2Hr) ◖ 1:53 │
└──────────────────────────────────────┘
```
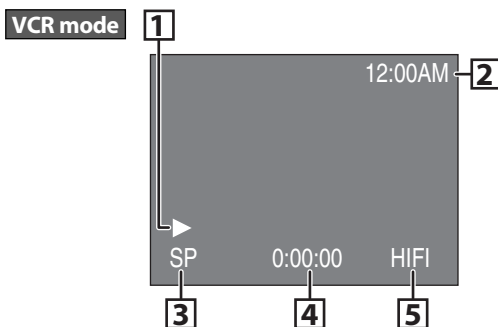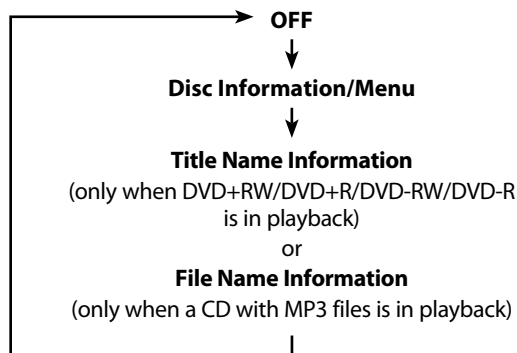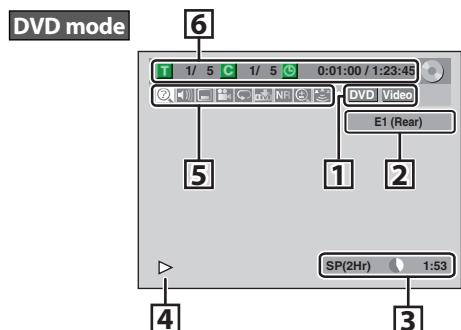   5   1   2   4   3
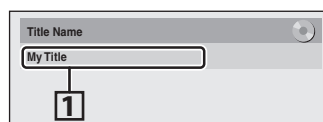
* This is an example screen only for explanation.

1. Indicates a disc type and format mode.
2. Indicates the selected external input position.
3. Indicates a recording mode and possible recording time left.
4. Indicates an operation status.
5. Each icon means:

⊘	: Search	▦	: Marker
◁))	: Audio	NR	: Noise Reduction
▭	: Subtitle	⊕	: Zoom
◷	: Angle	☷	: Surround
◌	: Repeat		

6. Indicates the current title number/total number of titles, the current chapter number/total number of chapters, and time lapse of the current title playback/ total duration of the title.

VCR mode

```
┌──────────────────────────────────────┐
│ ①                      12:00AM ← 2    │
│                                         │
│                                         │
│  ▷                                      │
│  SP          0:00:00          HIFI      │
└──────────────────────────────────────┘
```
      3   4   5

1. Indicates current video status.
2. Indicates the current time.
3. Indicates a recording or playing back mode.
4. Indicates a tape counter.
5. Audio status of the current cassette tape.

Note
• This is an example screen only for explanation. Displayed items are depending on the disc you inserted.

Title/File Name Information

Title Name Information

```
┌──────────────────────────────┐
│ Title Name              ●      │
│ My Title                        │
│    1                            │
└──────────────────────────────┘
```

File Name Information

```
┌──────────────────────────────┐
│ File Name               ●      │
│ My File                         │
│    1                            │
└──────────────────────────────┘
```
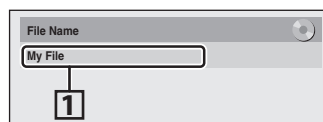
1. Displays title/file name.

GUIDE TO ON-SCREEN DISPLAYS AND MENUS

Main Menu

Press **[SETUP]** to display the main menu. Then use
[▲ / ▼] to select a menu and press **[OK]** to display the
menu. These menus provide entries to all main functions
of the unit.

```
    Setup
1   General Setting
2   Timer Programming
3   Title List
4   Disc Edit
5   CD Playback Mode
```
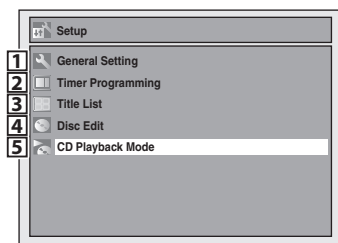
1. General Setting:
   To go to general setting menu.
2. Timer Programming:
   To program a timer recording.
3. Title List:
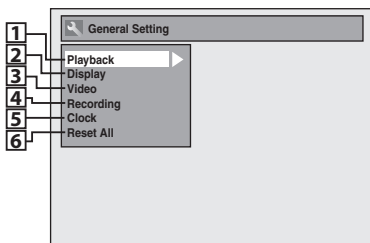   To call up the title list.
4. Disc Edit:
   To set up the DVD disc setting.
5. CD Playback Mode:
   To set up the CD playback setting.
   • "CD Playback Mode" is available only when an audio
     CD, a video CD, a CD-RW/-R with MP3 files is inserted
     into the unit.

General Setting Menu

```
    General Setting
1
2   Playback
3   Display
4   Video
5   Recording
6   Clock
    Reset All
```

1. Playback:
   To set up the unit to play back discs as you prefer.
2. Display:
   To set up the OSD screen as you prefer.
3. Video:
   To set up the video setting.
4. Recording:
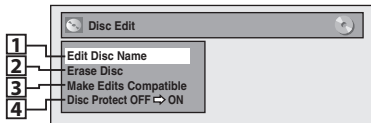   To set up the unit to record to discs as you prefer.
5. Clock:
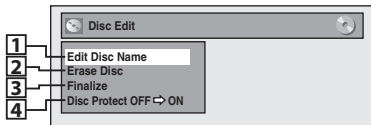   To set up the clock of the unit as you need.
6. Reset All:
   To reset the setting to the factory default.

Disc Edit / CD Playback Mode

<Disc Edit menu (DVD+RW)>

```
    Disc Edit
1   Edit Disc Name
2   Erase Disc
3   Make Edits Compatible
4   Disc Protect OFF ⇨ ON
```

<Disc Edit menu (DVD-RW)>

```
    Disc Edit
1   Edit Disc Name
2   Erase Disc
3   Finalize
4   Disc Protect OFF ⇨ ON
```

<Disc Edit menu (DVD+R/DVD-R)>

```
    Disc Edit
1   Edit Disc Name
3   Finalize
4   Disc Protect OFF ⇨ ON
```

<CD Playback Mode menu>

```
    CD Playback Mode
5   Random Play
6   Program Play
7   PBC (Video CD only)
```
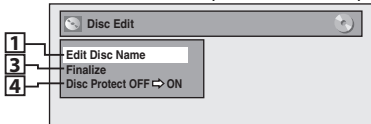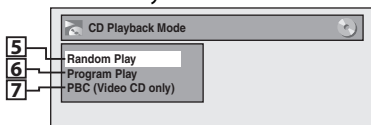
1. Edit Disc Name:
   Allows you to rename the disc.
2. Erase Disc: (DVD+RW/DVD-RW only)
   Allows you to erase all contents in the disc and format it.
3. Make Edits Compatible: (DVD+RW only)
   Allows you to memorize the editing status on the disc if
   you have added or deleted chapters, or made chapters
   hidden on this unit, and to effect it when playing back
   on the other unit.
   Finalize: (DVD+R/DVD-RW/-R only)
   Allows you to finalize a disc containing recorded titles.
4. Disc Protect :
   Allows you to protect a disc from accidental editing or
   recording.
5. Random Play:
   Allows you to activate the random playback feature.
6. Program Play: (audio CD/video CD only)
   Allows you to activate the program playback feature.
7. PBC (Video CD only):
   Allows you to select images or information on the menu
   screen by activating PBC (playback control) function.

EN 19

You need to follow these steps when you turn on this unit for the first time.

1 **Press [STANDBY-ON ⏻].**

Turn the TV on. Select the input to which the unit is connected.

2 **Use [▲ / ▼] to select your desired language, then press [OK] to set language.**

Initial Setup

OSD Language
English
Français
Español
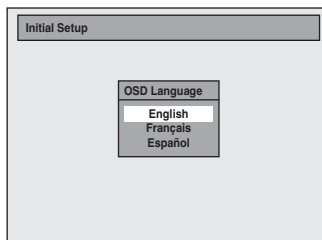
3 **Press [OK] to activate "Clock Setting".**

Initial Setup
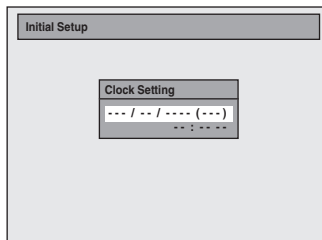
Clock Setting
- - - / - - / - - - - (- - -)
- - : - - - -

4 **Proceed to step 4 in "Clock Setting" on page 21.**

SETTING THE CLOCK

Set the clock before you try the timer programming.

Clock Setting

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Clock", then press [OK].**

3 **Use [▲ / ▼] to select calendar or time, then press [OK].**

General Setting	
Playback	
Display	
Video	**Clock Setting**
Recording	
Clock	**JAN / 01 / 2007 (MON)**
Reset All	**12 : 00 AM**

4 **Use [◄ / ►] to select an item to set, and use [▲ / ▼] to select the contents to suit your preference, then press [OK].**

General Setting	
Playback	
Display	
Video	**Clock Setting**
Recording	
Clock	**JAN / 01 / 2007 (MON)**
Reset All	**12 : 00 AM**
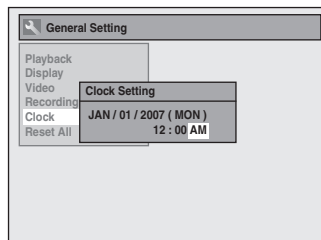
Your setting will be activated.
The clock start counting when you press **[OK]**.

5 **Press [SETUP] to exit.**

Note
- Your clock setting will be lost if either there is a power failure or this unit has been unplugged for more than 30 seconds.
- For setting the day, year, hour, and minute, **[the Number buttons]** can also be used.
- You can set the built-in calendar from the year 2007 up to 2056.

INFORMATION ON DVD RECORDING

Before you make a recording, read the following information.

Recordable Discs

This unit can record to DVD+RW, DVD+R, DVD-RW and DVD-R.
DVD+R/DVD-R can only be recorded to once. DVD+RW/ DVD-RW can be recorded to and erased many times.
DVD-RW/-R will be recorded in the DVD+VR mode automatically in this unit.

Logo	Attributes
DVD+RW **DVD+R**	8cm/12cm, single-sided, single layer disc Approx. max. recording time (SLP mode): 360 minutes (4.7GB) (for 12cm) 108 minutes (1.4GB) (for 8cm)
DVD-RW **DVD-R**	

• Following discs are recommended for good recording quality and are proven to be compatible with this unit. However, depending on the media condition the unit may not read the disc properly.

Verbatim	DVD+R 8x,	DVD+RW 4x,
	DVD-R 8x,	DVD-RW 2x
JVC	DVD-RW 4x	
Maxell	DVD+R 4x/8x/16x,	DVD-R 8x/16x
SONY	DVD+R 4x/8x/16x,	DVD+RW 4x
TDK	DVD+R 4x/8x/16x	

Performance of any other discs are not guaranteed.

• **You can play back DVD+RW on most DVD players without finalizing. However, if you have added or deleted chapters, or made chapters hidden, you must perform "Make Edits Compatible" before being able to see those effects on other units. (Refer to page 68 for more details.) To play back discs other than DVD+RW on other DVD players, you will need to finalize.**

Unrecordable Discs

• DVD-RW recorded in the mode other than +VR is not recordable on this unit unless you erase all contents in the disc (refer to page 67).
• DVD-R recorded in the mode other than +VR is not recordable on this unit.

Recording Mode

You can select a recording mode among 6 options, and the recording time will depend on the recording mode you select as follows.

Disc size	Recording mode	Recording time	Video/sound quality
8cm Disc	HQ (1Hr)	18 min	☆☆☆☆☆ (good)
	SP (2Hr)	36 min	☆☆☆☆
	SPP (2.5Hr)	45 min	☆☆☆
	LP (3Hr)	54 min	☆☆☆
	EP (4Hr)	72 min	☆☆
	SLP (6Hr)	108 min	☆ (poor)
12cm Disc	HQ (1Hr)	60 min	☆☆☆☆☆☆ (good)
	SP (2Hr)	120 min	☆☆☆☆☆
	SPP (2.5Hr)	150 min	☆☆☆☆
	LP (3Hr)	180 min	☆☆☆
	EP (4Hr)	240 min	☆☆
	SLP (6Hr)	360 min	☆ (poor)

• The recording time is only an estimate. The actual recording time may differ.
• The audio and video quality gets poorer as the recording time becomes longer.
• Each time **[REC MODE]** is pressed, recording mode and its allowed recording time will be displayed.

Note
• **This unit cannot record to CD-RW or CD-R.**
• DVD+RW/+R, DVD-RW/-R and CD-RW/-R recorded on a personal computer or a DVD or CD recorder may not be played back if the disc is damaged or dirty or if there is condensation on the player's lens.
• If you record a disc using a personal computer, even if it is recorded in a compatible format it may not be played back because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
• Since the recording is made by the VBR (variable bit rate) method, depending on the picture you are recording, the actual remaining time for recording may be a little shorter than the remaining time displayed on the TV screen.
• You cannot record copy-protected program using this unit. (Copy-protected signal is included in DVD-video or some satellite broadcasts.)
• You cannot record "copy-once only" program on DVD.

BEFORE RECORDING

Make Recording Compatible

⊘DVD +RW ⊘DVD +R ⊘DVD -RW ⊘DVD -R

Use this feature to make the unfinalized +VR mode discs recorded on other unit recordable on this unit. When you make an additional recording on this unit with "Make Recording Compatible" set to "ON", the title menu is automatically converted to our style.
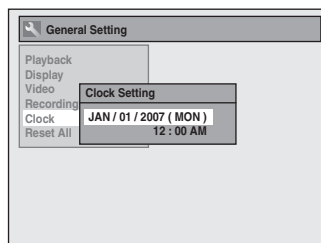
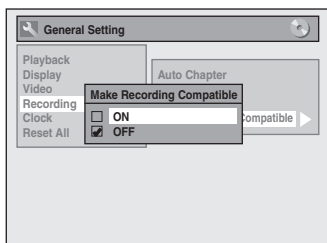**1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2) Use [▲ / ▼] to select "Recording", then press [OK].
"Recording" menu will appear.

3) Use [▲ / ▼] to select "Make Recording Compatible", then press [OK].

4) Use [▲ / ▼] to select "ON" or "OFF", then press [OK].

ON: Title list will be replaced when you make additional recordings to the discs recorded by other units.
OFF: Prohibiting additional record to the disc that has a title list created by other units.

5) Press [SETUP] to exit.

Setting for Auto Chapter

You can set a specified time for chapter marks.

1) Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].
"General Setting" menu will appear.

2) Use [▲ / ▼] to select "Recording", then press [OK].
"Recording" menu will appear.

3) Use [▲ / ▼] to select "Auto Chapter", then press [OK].

4) Use [▲ / ▼] to select a desired time option, then press [OK].
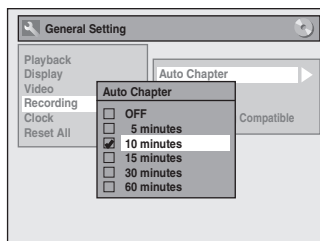
5) Press [SETUP] to exit.

Note
- The interval for auto chapter marks may slightly differ.
- A blank chapter may be created depending on the remaining time of the disc.

Introduction

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

VCR Functions

Others

Español

BASIC RECORDING & ONE-TOUCH TIMER RECORDING

Follow the steps to record TV programs from an external tuner.
This unit has no tuner system so cannot receive TV broadcasts without external tuner or such devices.

1 **Press [STANDBY-ON ⏻].**
Turn on the TV and be sure to select the input to which the unit is connected.
Press [DVD].

2 **Press [OPEN/CLOSE ▲] to open the disc tray and insert your disc with its label facing up.**
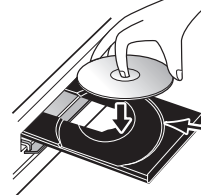
Align the disc to the disc tray guide.

* Make sure the disc is compatible with this unit. (Refer to page 22 for the list of compatible discs.)

3 **Press [OPEN/CLOSE ▲] to close the disc tray.**

It may take a while to load the disc completely.

• When inserting a brand-new DVD+RW/DVD-RW, the unit automatically starts to format.
• If titles have been recorded on the disc, the title list is displayed. Press **[STOP ■]** to exit the title list.

4 **Press [REC MODE] to select a recording mode.**
Refer to "Recording Mode" on page 22 for DVD.

SP(2Hr) 0:58
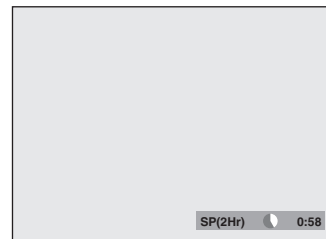
5 **Press [SOURCE] to select the appropriate external input position (E1/E2) to which your external tuner is connected. Then select the desired channel to record on the external tuner.**

BASIC RECORDING & ONE-TOUCH TIMER RECORDING

Introduction

Connections

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Español

6 **Press [REC ●] to start recording.**
"●" will be displayed for 5 seconds.
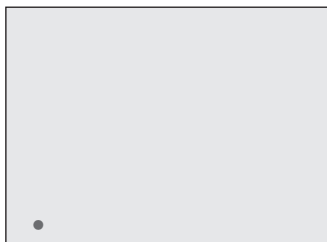
Press **[PAUSE ❙❙]** to pause recording.
Press **[PAUSE ❙❙]** or **[REC ●]** again to restart recording.

To set one-touch timer recording (OTR)...

This is a simple way to set the recording time in blocks of 30 minutes.
Press **[REC ●]** repeatedly until the desired recording time (30 minutes to 6 hours) appears on the TV screen.
One-touch timer recording will start.

```
●    0:30
                      0:30
(normal recording)         1:00

         6:00        5:30
```

• To cancel one-touch timer recording within the specified time, press **[STOP ■]**.

7 **Press [STOP ■] to stop recording.**
The recorded title will appear in the title list.
(Refer to "Guide to a Title List" on page 56.)
e.g.) DVD+R

Writing to Disc ▮▮▮▮▮▮▮▮▮▮ **90%**

```
  ▲
        1                          SP(2Hr)
        NOV/21/07  11:00AM  E1  SP
        NOV/21/07   0:20:44

        2
        EMPTY TITLE
        1:41:17  SP(2Hr)
```

• Press **[STOP ■]** to exit the title list.

Note

• When you press **[REC ●]**, recording starts immediately and continues until the disc is full or you stop recording.
• This unit cannot record images as aspect ratio of 16:9. The 16:9 images will be recorded as 4:3.
• When the unit clock has not been set, the space for a date and time of title names will be blank.
• You cannot change the recording mode during the recording pause mode.
• You can change a channel to be recorded during the recording pause mode.

Note for one-touch timer recording

• Press **[DISPLAY]** to see the remaining recording time on the TV screen.
• Unlike the timer recording, you can perform the following operations during one-touch timer recording.
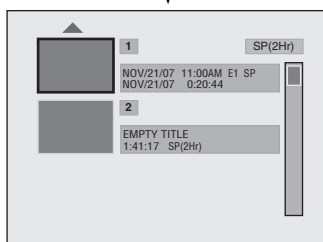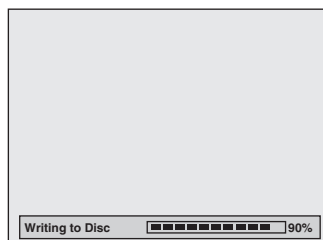 - Turning off the power to stop one-touch timer recording.
  - Using **[REC ●]** or **[STOP ■]** on the remote control.
• You cannot use the pause function during one-touch timer recording.
• If DVD one-touch timer recording is completed during VCR playback or recording, the DVD will be in stop mode and the VCR keeps the current mode.
• When one-touch timer recording is finished and the power is turned off, the unit will switch to the timer-standby mode automatically if a timer recording has been programmed. Press **[TIMER SET]** to cancel the timer-standby mode to use the unit continuously.

TIMER RECORDING

4 Use [▲ / ▼] or [the Number buttons] to enter the start and end time, then press [▶].

```
Timer Programming                    [===] ●
                    ⏰ MON JAN/01 11:00AM
    Date          Start          End
    JAN/02        12 : 00AM      -- : --
    E1/E2         REC To         Mode
    E1            DVD            SP
                                 SP  ● 2 : 00
                                          1/1
```
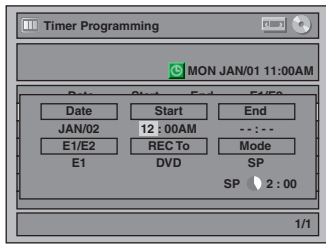
5 Use [▲ / ▼] to select the appropriate external input position (E1/E2) to which your external tuner is connected, then press [▶].
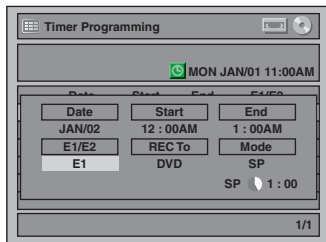
```
Timer Programming                    [===] ●
                    ⏰ MON JAN/01 11:00AM
    Date          Start          End
    JAN/02        12 : 00AM      1 : 00AM
    E1/E2         REC To         Mode
    E1            DVD            SP
                                 SP  ● 1 : 00
                                          1/1
```

6 Use [▲ / ▼] to select a recording media ("DVD" or "VCR"), then press [▶].

```
    Date          Start          End
    JAN/02        12 : 00AM      1 : 00AM
    E1/E2         REC To         Mode
    E1            DVD            SP
                                 SP  ● 1 : 00
                                          1/1
```

7 Use [▲ / ▼] to select a recording mode.

```
    Date          Start          End
    JAN/02        12 : 00AM      1 : 00AM
    E1/E2         REC To         Mode
    E1            DVD            SP
                                 SP  ● 1 : 00
                                          1/1
```

Refer to "Recording Mode" on page 22 for DVD or "Recording" on page 79 for VCR.

• You can check the remaining recordable space of the disc when you select the recording mode.

```
    Date          Start          End
    JAN/02        12 : 00AM      1 : 00AM
    E1/E2         REC To         Mode
    E1            DVD            SP
                                 SP  ● 1 : 00
```
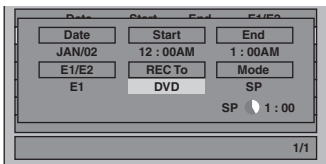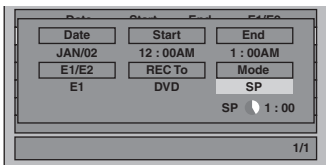
Auto recording mode select...

When "Auto" is selected as a recording mode, the unit calculates how much time is available on the disc and determines the appropriate recording mode to complete recording the program.

```
    Date          Start          End
    JAN/02        12 : 00AM      1 : 00AM
    E1/E2         REC To         Mode
    E1            DVD            Auto
                                 Auto ● 0 : 00
```

• "Auto" is only available for one program in the timer program list.
• The recording may be cut short when the available recording space of the disc is too limited.

8 Press [OK] when all items are entered.

Your program setting is now stored.

• To set another program, repeat steps 2 to 7.
• To exit, press **[TIMER]** or **[SETUP]**.
• When 2 or more programs are overlapped, "Timer program overlapped" appears, and the overlapped program will be displayed in blue.
• To correct the timer program refer to "Checking, canceling, or correcting the timer programming information" on page 28.

9 Press [TIMER SET] to set a timer programming.

🕐 will appear on the front panel display.

```
       ⏰
    1 1 : 0 0  DVD
```

"VCR" will appear if VCR timer recording have been set.

Note

• **If you have not set the clock yet:**
 "Clock Setting" menu will appear instead of the timer programming list at step 1. Continue with the step 4 in "Clock Setting" on page 21 before setting a timer programming.
• Use **[◄ / ►]** to move the cursor to the left and the right in "Timer Programming" menu.
• If a basic recording or one-touch timer recording is in progress on one component (e.g., VCR) and the timer recording set for the other component (e.g., DVD) is about to begin, the unit automatically switches to the programmed channel for timer recording 2 minutes before the programmed starting time, and the recording in progress (for VCR) will be canceled UNLESS their recording channels are the same. If their recording channels are the same, the timer recording will start without canceling the recording currently in progress. In this case, the recording of the same channel will be made on both DVD and VCR.
• Cancel the timer-standby mode by pressing **[TIMER SET]** before operation for either DVD or VCR. When finished operating, press **[TIMER SET]** to resume the timer-standby mode.
• In the timer-standby mode, you can turn on the power and use the component (VCR or DVD) which is not currently timer-programmed.
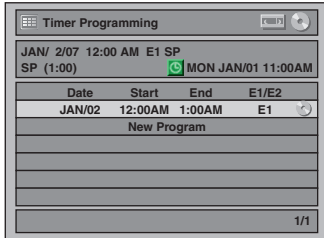
Checking, canceling, or correcting the timer programming information

1) Press [TIMER SET].

🕐 will disappear on the front panel display.

2) Press [TIMER].

3) Check the information on the list you will need.

```
┌─────────────────────────────────────┐
│ ▦ Timer Programming          ▭ 🕐  │
│                                      │
│ JAN/ 2/07  12:00 AM  E1 SP           │
│ SP (1:00)            🕐 MON JAN/01 11:00AM │
│   Date     Start   End    E1/E2      │
│   JAN/02  12:00AM  1:00AM   E1    🕐 │
│            New Program               │
│                                      │
│                                      │
│                                      │
│                                 1/1  │
└─────────────────────────────────────┘
```

4-A) To delete the timer program:

1 Use [▲ / ▼] to select the program you want to delete, then press [OK].

2 Use [▲ / ▼] to select "Delete", then press [OK]. Confirmation window will appear.

3 Use [▲ / ▼] to select "Yes", then press [OK].

4-B) To correct the timer program:

1 Use [▲ / ▼] to select the program you want to correct, then press [OK].

2 Use [▲ / ▼] to select "Program Change", then press [OK].

3 Correct the timer program by using [▲ / ▼ / ◄ / ►], then press [OK].

5) Press [TIMER] to exit.

6) Press [TIMER SET] to return to the timer standby mode.
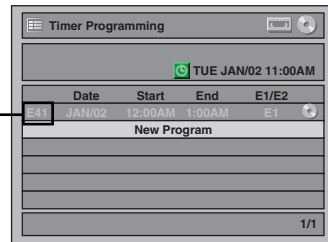
To stop the timer recording in process

Press [STOP ■] to stop the disc recording or [STOP ■/EJECT ▲] to stop the cassette tape recording on the front panel of the unit.

[STOP ■] on the remote control is not effective.

Note

- Press **[TIMER]** to check the timer recording in progress. When the timer recording is proceeding, that program will be highlighted with red. In this case, you cannot select any other program.

If the timer program did not complete correctly, the error number appears in the timer programming list.

```
┌─────────────────────────────────────┐
│ ▦ Timer Programming          ▭ 🕐  │
│                                      │
│                  🕐 TUE JAN/02 11:00AM │
│   Date     Start   End    E1/E2      │
│ E41 JAN/02 12:00AM 1:00AM   E1    🕐 │
│            New Program               │
│                                      │
│                                      │
│                                      │
│                                      │
│                                 1/1  │
└─────────────────────────────────────┘
```

Each error number means:

E1-22 E37-39	Recording error other than below	E41	Power failed
E24	Unrecordable disc	E42	No disc when recording
E25-26	Copy prohibited program	E43	Already 49 titles recorded
E29	Disc protected	E44	Already 254 chapters recorded
E30	Disc full	E45	Copy prohibited program
E35	PCA full *1	E46	It is impossible to record additionally on a disc recorded by other units when setting " Make Recording Compatible" to "OFF".
E36	Already finalized video format disc		
E40	Some portion has not been recorded because of program overlapping. Recording did not start at the start time.		

- E23, E27, E28, E31, E32, E33 and E34 are not displayed.
- A program with the error number is grayed in the timer programming list.
- Once the timer programming list with error line(s) is displayed, or after canceling and setting again the timer standby mode, the program line(s) with error will be cleared.

*1 PCA is a disc's space reserved for recording test.
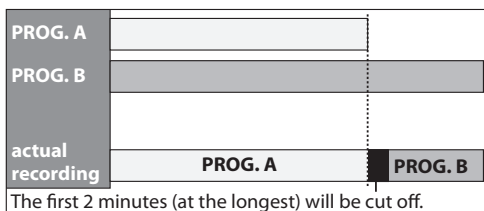
TIMER RECORDING

Hints for Timer Recording

- If there is a power failure or this unit has been unplugged for more than 30 seconds, the clock setting and all timer programming will be lost.
- If a disc is not inserted, "DVD" on the front panel display flashes and timer recording cannot be performed. In some cases, ⏰ will appear momentarily around the start point as the unit attempts to record. Please insert a recordable disc.
- If a cassette tape with a erase-protection tab is not in the cassette compartment or there is no cassette tape in the cassette compartment, "VCR" on the front panel display flashes and timer recording cannot be performed. Please insert a recordable cassette tape.
- If you press **[TIMER SET]** and turn on the unit while either DVD or VCR is in timer standby mode, ⏰ disappears. In this case, you cannot change the mode between DVD and VCR. You cannot change any settings using **[SETUP]** or edit discs.
- When all the timer recording is completed, ⏰ flashes. To play back or eject the recorded disc, press **[TIMER SET]** first, then select the recorded title and press **[PLAY ▶]**, or **[OPEN/CLOSE ▲]** to remove the disc.
- If both DVD and VCR are timer programmed, you cannot use any functions for either unit during timer standby or

timer recording. If you want to use functions other than recording under such condition, cancel timer recording by pressing **[TIMER SET]** during timer standby or stop recording by pressing **[STOP ■]** on the front panel during timer recording.
- To cancel the timer standby mode, press **[TIMER SET]**.
- When the starting and the ending time are the same, the length of the recording will be set for 24 hours. When the disc or cassette tape becomes full during the recording, the unit turns itself off.
- When the programmed starting and ending time are earlier than the current time, the setting will not be accepted and be cleared for redoing.
- If the starting time is earlier and the ending time is later than the current time, the recording will start right after you turn the power off.
- The timer recording for digital TV cannot record any audio language other than English.
- The timer recording cannot be performed in DVD and VCR at the same time. If you set 2 programming with the same channel and time in both devices, the program with a lower program number will be recorded.

The Priority of Overlapped Settings

- Timer program which has the earlier start time will be placed first in the timer program list, and be given priority over the programs with the later start time when timer programs overlap.
- When timer programs overlap, the first 2 minutes (at the longest) of the later recording will be cut off.
- When two or more timer programs have the same start time, the program set first will be given priority.
- A timer recording of lower priority will be canceled or start from the middle.
- Check the overlapped timer programmings and change the priority if necessary.

■ **When the starting time is the same:**
A program set previously (PROG. A) has priority.

The first 2 minutes (at the longest) will be cut off.

Note for DVD recording

- When the recording time of 2 programs are overlapped, or the end time of a program and the start time of another program is the same, the first 2 minutes (at the longest) of the subsequent program will be cut off.
- If the cut-off portion comes up to 3 minute or more, this program will be displayed with error number E40 in the timer programming list.

■ **When the end time of the programming currently being recorded and the start time of the subsequent program are same:**
The beginning of the PROG. B may be cut off.

The first 2 minutes (at the longest) will be cut off.
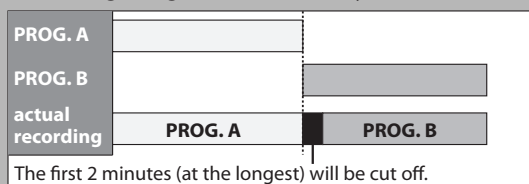
SATELLITE LINK

You can set the unit to start recording whenever it detects the video signal from the external tuner.

**Preparing for the satellite link timer recording:**
Preparation on the tuner

• Satellite link accepts only the connection from E1 (rear) with the external tuner. (The connection from E2 cannot read any signals from the external tuner.)

• The external tuner should be equipped with some kind of timer function. Using timer function of the tuner, set it to output audio/video signals when it comes to the time you want to start recording, and stop output audio/video signals when it comes to the time you want to finish recording. Refer to the tuner's manual on how to set the timer.

• Make sure to set the satellite link standby mode when you finish setting.
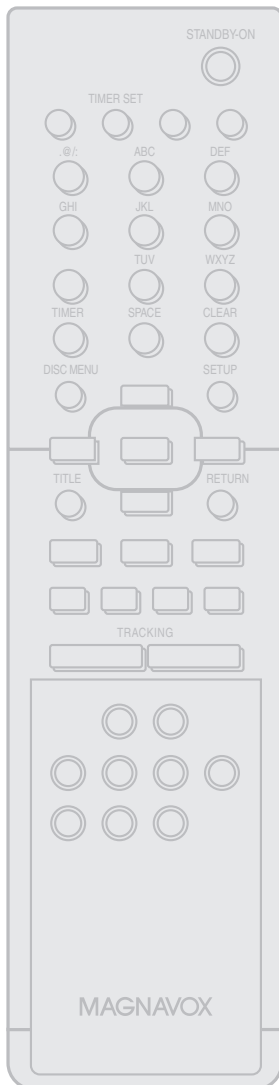
1 **Press [SETUP].**

2 **Use [▲ / ▼] to select "Timer Programming", then press [OK].**

3 **Use [▲ / ▼] to select "Satellite Link", then press [OK].**

Timer Programming	
Timer Programming	
Satellite Link	
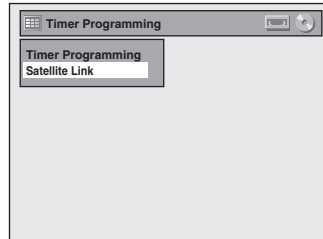
4 **Use [▲ / ▼] to select the time, media and recording mode, then press [OK].**

Satellite Link	

Start	DVD VCR	Mode
5:00PM	DVD	SP (2Hr)
	To Standby Mode	
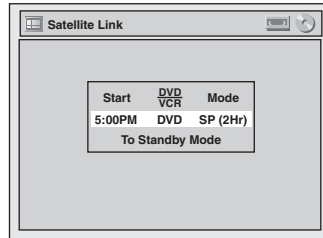
5 **Use [▲ / ▼] to set the desired starting time, then press [►].**
• The hour can be selected from 1 to 12 with AM or PM.
• Repeat procedures in step 5 to set the desired minutes.
• If you wish to go back to the left, press **[◄]**.

6 **Use [▲ / ▼] to select a recording media ("DVD" or "VCR"), then press [►].**

7 **Use [▲ / ▼] to select the recording mode.**
Refer to page 22 for details.

SATELLITE LINK

8 **Press [OK].**
"To Standby Mode" is highlighted.
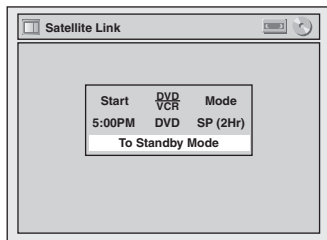
9 **Press [OK] again.**

Satellite Link		
Start	**DVD/VCR**	**Mode**
5:00PM	**DVD**	**SP (2Hr)**
	To Standby Mode	

In a second, the unit will be turned off automatically as it goes into the satellite link standby mode.

To cancel the satellite link function while in the satellite link standby mode:
Press **[TIMER SET]** to turn on the unit.
To cancel the satellite link function while the satellite link recording is in progress:
Press **[STOP ■]** *on the front panel of the unit.*

Notes
- If the signal of external input breaks up over 5 seconds, satellite link function will be canceled.
- If you have not set the clock, "Clock Setting" menu will appear at step 3. Follow to step 3 in "Clock Setting" on page 21.
- You cannot set the end time for the satellite link timer recording on this unit.
- Recording picture will be distorted if the copy protection signal is being detected during satellite link timer recording.
- You can record the satellite link by using S-video input jacks on the rear panel. Refer to page 13 for more information.
- When a regular timer recording and the satellite link timer recording are overlapped, those recordings are recorded as illustrated below.
- Press **[TIMER]** during the satellite link timer recording to check the satellite link timer recording in progress.

	example 1		example 2		example 3
timer recording		timer recording		timer recording	
satellite link		satellite link		satellite link	
actual recording		actual recording		actual recording	
	The first 2 minutes (at the longest) will be cut off.				The first 2 minutes (at the longest) will be cut off.

OVERWRITING UNNECESSARY TITLE

You can overwrite the existing title from the beginning.

1) Press [STANDBY-ON ⏻].
Make sure that the TV input is set on the unit.

2) Load the disc that includes a title to be overwritten.
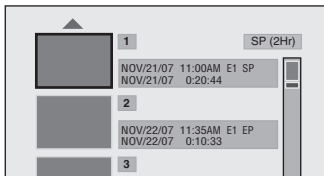
> **It takes a while to display the title list.**

Title list will appear.
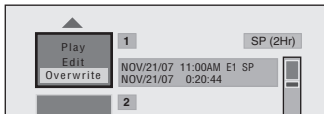If the title list does not appear, press **[TITLE]**.

3) Press [REC MODE] to select a recording mode.
Refer to "Recording Mode" on page 22.

4) Use [▲ / ▼] to select a title to be overwritten, then press [OK].

1	SP (2Hr)
NOV/21/07 11:00AM E1 SP	
NOV/21/07 0:20:44	
2	
NOV/22/07 11:35AM E1 EP	
NOV/22/07 0:10:33	
3	

5) Use [▲ / ▼] to select "Overwrite", then press [OK].

Play	**1**	SP (2Hr)
Edit	NOV/21/07 11:00AM E1 SP	
Overwrite	NOV/21/07 0:20:44	
	2	

6) Press [SOURCE] to select the appropriate external input position (E1/E2) to which your external tuner is connected. Then select the desired channel to record on the external tuner.
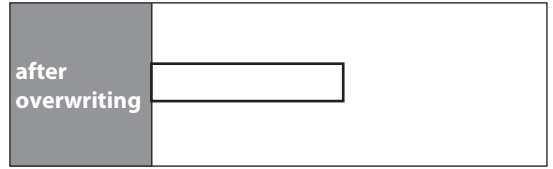
e.g.) DVD+RW

1	1	0:01:00	
		+RW	
		E1 (Rear)	
⏸●		SP(2Hr)	2:00
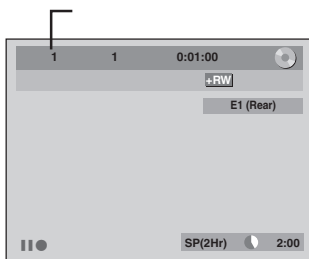
OVERWRITING UNNECESSARY TITLE

When you overwrite on the unnecessary title, there were various circumstances such as follows. Please note that following cases only describe the overwriting without any recording mode discrepancy. To avoid accidental deletion please check if there is no important title after the overwriting point.

☐ **When overwriting title is shorter than the existing title:**
(overwriting from the beginning of the title)

overwrite recording : A	
existing title : B	

after overwriting	

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

VCR Functions

Others

Español
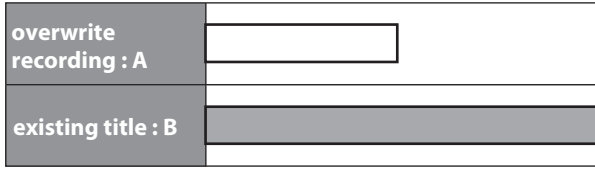
EXTERNAL DEVICE RECORDING

Recording from an External Device
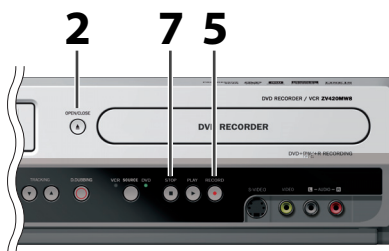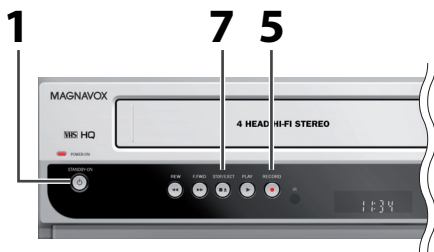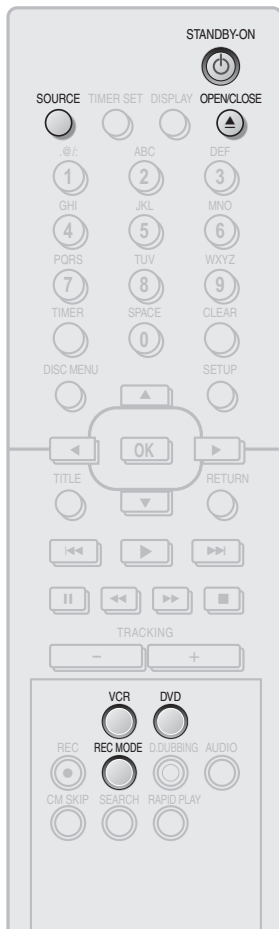
Before recording from an external device, refer to the instructions for the connection on page 34.

1 **Turn on the TV and press [STANDBY-ON ⏻], and be sure to select the input of the TV to which the unit is connected.**

2 **When you want to record to the disc: Press [DVD].**
Press [OPEN/CLOSE ⏏] to open the disc tray. Place the disc to record properly. Press [OPEN/CLOSE ⏏] again to close the disc tray.

> It takes a while to load the disc.

When you want to record to a cassette tape:
Press [VCR].
Insert the cassette tape with a erase-protection tab into the cassette compartment.

3 **Select the input of the unit which the external device is connected. (E2 or E1)**
• To use the input jacks on the rear of this unit; Select "E1 (Rear)" position by using **[SOURCE]**.
• To use the input jacks on the front of this unit; Select "E2 (Front)" position by using **[SOURCE]**.

4 **Press [REC MODE] to select a recording mode.**
Refer to "Recording Mode" on page 22 for DVD or "Recording" on page 79 for VCR.

5 **Press [RECORD ●] (DVD or VCR) on the unit to start recording.**

6 **Start playback on the external device to record from.**

7 **For disc:**
Press [STOP ■] on the unit to stop recording.
For cassette tape:
Press [STOP ■/EJECT ⏏] on the unit to stop recording.

> This operation may take a while to be completed.

SETTING A DISC TO PROTECT

To prevent accidental recording, editing or erasing the titles, you can protect them from "Disc Edit" menu.

1 **Press [SETUP].**

2 **Use [▲ / ▼] to select "Disc Edit", then press [OK].**

3 **Use [▲ / ▼] to select "Disc Protect OFF ➡ ON", then press [OK].**
e.g.) DVD+RW

Disc Edit
Edit Disc Name
Erase Disc
Make Edits Compatible
Disc Protect OFF ⇨ ON

4 **Use [▲ / ▼] to select "Yes", then press [OK].**

Disc Edit
Edit Disc Name
Erase Disc
Make Edits Com
Disc Protect OF

Protect this disc?
Yes
No
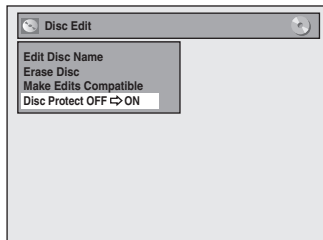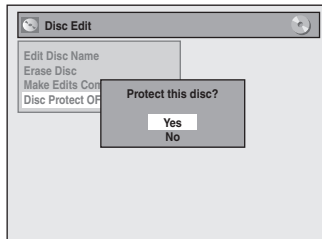
A disc will be protected.

This operation may take a while to be completed.

Note

To cancel the disc protect:
• When you insert a disc protected with this unit, "Disc Protect ON ➡ OFF" will appear instead of "OFF ➡ ON" at step 3.

Disc Edit
Edit Disc Name
Erase Disc
Make Edits Compatible
Disc Protect ON ⇨ OFF
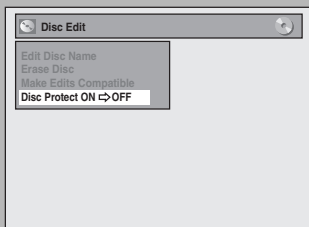
To release the protect for the disc, select "Yes" at step 4.

PLAYING THE DISCS IN OTHER DVD PLAYERS

Finalizing a Disc

⊘DVD +R ⊘DVD -RW ⊘DVD -R

You will need to finalize discs to play back in other DVD players.

Finalizing may take several minutes up to an hour.

A shorter recording period on the disc will require a longer time period for finalization. Do not unplug the power cord during finalization.

1 **Press [SETUP].**

2 **Use [▲ / ▼] to select "Disc Edit", then press [OK].**
"Disc Edit" menu will appear.

3 **Use [▲ / ▼] to select "Finalize", then press [OK].**

4 **Use [▲ / ▼] to select "Yes", then press [OK].**
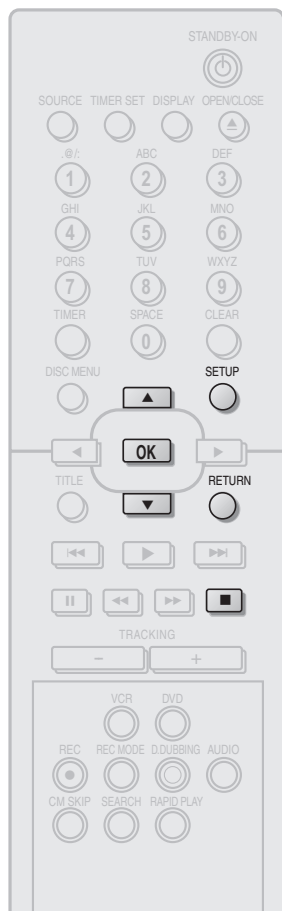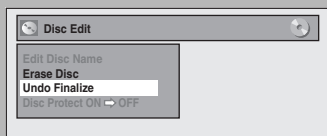e.g.) DVD+R, DVD-R

```
🔘 Disc Edit
Edit Disc Name
Finalize
Disc Protect OF
              Finalize disc?
                  Yes
                  No
```
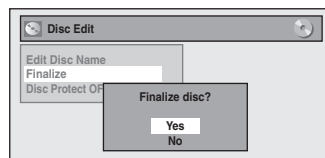
Finalizing will start.

```
Finalizing    ▪▪▪▪▪▪▪▪▪▪    90%
```

To cancel finalizing...
(DVD-RW only)

• To cancel finalizing at step 4, press **[STOP ■]**, select "Yes" with **[▲ / ▼]**, then press **[OK]**. Finalizing is canceled and the unit will be in stop mode.

```
        Do you want to cancel ?
                Yes
                No

Finalizing    ▪          5%
```
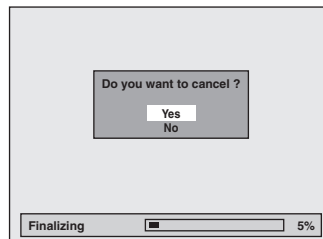
• If ⊘ appears when pressing **[STOP ■]**, you cannot cancel finalizing because the finalizing has been in certain progress.

• When selecting "No" and press **[OK]** or **[RETURN]**, finalizing will be continued.

• You cannot cancel finalizing the DVD+R/DVD-R once it has started.

This operation may take a while to be completed.

5 **Finalizing is completed.**

Note

• Once you have finalized a DVD+R/ DVD-R, you cannot edit or record anything on that disc.

• There is no need to finalize DVD+RW.

• When you insert a DVD-RW finalized with this unit, "Undo Finalize" will appear instead of "Finalize".

```
🔘 Disc Edit
Edit Disc Name
Erase Disc
Undo Finalize
Disc Protect ON ⇒ OFF
```

To release the finalizing for the disc, select "Undo Finalize" at step 3.

* DO NOT power off during finalization, this will result in malfunction.

EN   37

Auto Finalizing

DVD +R DVD -RW DVD -R

You can finalize discs automatically using this function. You can use this function to finalize discs after finishing all timer recordings and at the end of the disc space.

1 Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].
"General Setting" menu will appear.

2 Use [▲ / ▼] to select "Recording", then press [OK].
"Recording" menu will appear.

3 Use [▲ / ▼] to select "Auto Finalize", then press [OK].

4 Use [▲ / ▼] to select "Disc Full" or "End of Timer Rec", then press [OK].

General Setting
Playback
Display
Video   Auto Chapter
Recording   Auto Finalize
Clock   Disc Full   ng Compatible
Reset All   End of Timer Rec
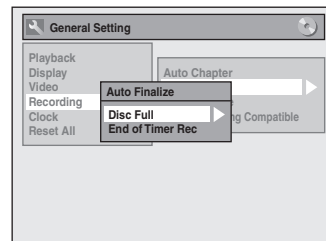
5 Use [▲ / ▼] to select "ON", then press [OK].
e.g.) "Disc Full"

General Setting
Playback
Display
Video   Auto Chapter
Recording   Disc Full
Clock   ☐ ON   g Compatible
Reset All   ☑ OFF
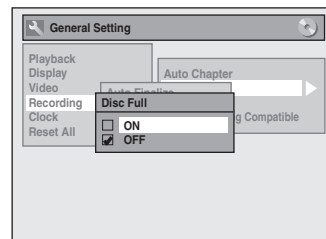
Your setting will be activated.

6 Press [SETUP] to exit.

DVD
+RW
DVD
+R
DVD
–RW
DVD
–R
VHS

1 Press [SETUP] and use [▲ / ▼]

DUBBING MODE

VCR to DVD

4 Use [▲ / ▼] to select "VCR ➡ DVD", then press [OK].

```
General Setting
  Playback
  Display          Auto Chapter
  Video            Auto Finalize
  Recording    Dubbing Mode
  Clock                          Compatible
  Reset All     ☑ VCR ➡ DVD
                ☐ DVD ➡ VCR
```

5 Press [SETUP] to exit.
Press [VCR].

6 Press [PLAY ▶]. Then press [PAUSE ❚❚] at the point you wish to start recording.
• Since it takes about a few seconds before the actual dubbing begins, please allow extra 5 seconds when selecting the starting point.

7 Press [DVD].
Make sure to select a recording mode using [REC MODE].

8 Press [D.DUBBING].
VCR to DVD duplication will start.

9 Press [STOP ■] to stop the recording.
Title list will automatically appear.
• If you want to watch the duplicated material after the VCR to DVD duplication, press [OK] and then select "Play" in the title.

DVD to VCR

4 Use [▲ / ▼] to select "DVD ➡ VCR", then press [OK].

```
General Setting
  Playback
  Display          Auto Chapter
  Video            Auto Finalize
  Recording    Dubbing Mode
  Clock                          Compatible
  Reset All     ☑ VCR ➡ DVD
                ☐ DVD ➡ VCR
```
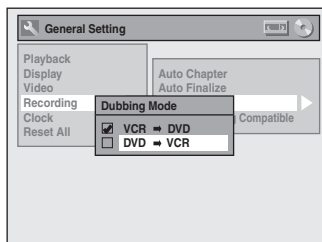
5 Press [SETUP] to exit.
Press [DVD].

6 Press [PLAY ▶]. Then press [PAUSE ❚❚] at the point you wish to start recording.

7 Press [VCR].
Make sure to select a recording mode using [REC MODE].

8 Press [D.DUBBING].
DVD to VCR duplication will start.

9 Press [STOP ■] to stop the recording.

Note
• When you turn off the unit after setting the dubbing mode to **DVD ➡ VCR**, the setting will be set to **VCR ➡ DVD** automatically.
• You cannot change the output mode during VCR to DVD or DVD to VCR duplication.

For Audio CD to VCR duplication:
• This function is available on Audio CD, not MP3 files.

For VCR to DVD duplication:
• The playback sound mode is followed by the setting of VCR playback sound mode on page 81. Set the playback sound mode to which you wish to record to the DVD.
• This unit will automatically stop the duplication if playback with no image is for more than 3 minutes during VCR to DVD duplication.
• Dubbing indicator will appear on the front panel display during dubbing.

Playback

DVD +RW **DVD +R** **DVD -R**

2 Press [O... disc tray and ... label facing up.

Align the disc to the disc tray guide.

... is compatible with this unit. ... the list of compatible discs.)

] to close the

4

... 4...

5 Pres... tempo...
• Refer to "...
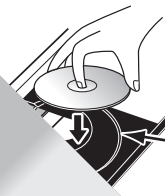
Note

• Some discs may start playback automatically.
• You can select images or information on the menu screen by activating PBC (playback control) function (page 41).

BASIC PLAYBACK

Playback from the Title List

1 **Press [STANDBY-ON ☉].**
Turn on the TV and be sure to select the input to which the unit is connected.
Press [DVD].

2 **Press [OPEN/CLOSE ▲] to open the disc tray and insert your disc with its label facing up.**
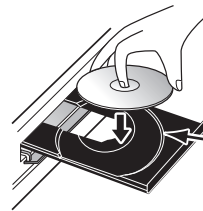
Align the disc to the disc tray guide.

* Make sure the disc is compatible with this unit. (Refer to page 41 for the list of compatible discs.)

3 **Press [OPEN/CLOSE ▲] to close the disc tray.**

It may take a while to load the disc completely.

• To exit the title list, press **[STOP ■]**.
• To resume the title list, press **[TITLE]**.

Note
• Some discs may start playback automatically.
• You can also start playback by pressing **[PLAY ►]** instead of **[OK]** at step 4.

4 **Use [▲ / ▼] to select a desired title, then press [OK].**

	1	SP (2Hr)
	NOV/21/07 11:00AM E1 SP NOV/21/07 0:20:44	
	2	
	NOV/22/07 11:35AM E1 EP NOV/22/07 0:10:33	
	3	
	EMPTY TITLE 1:37:52 SP(2Hr)	

- For Video CD, when "PBC (Video CD only)" in "CD playback Mode" menu is set to "ON", the video CD main menu will appear when inserting a disc. In such case, select a numbered menu with **[the Number buttons]**.
- Press **[▶]** to display the next page, and press **[◀]** to display the previous page.

If you want to see disc information, press **[◀]** when the first page of the title list is displayed or press **[▲]** when the first title is selected but not when "Play", "Edit" or "Overwrite" is highlighted.

e.g.) DVD+RW

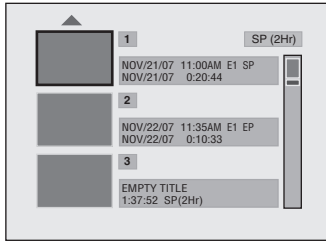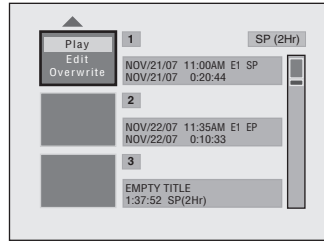|		
1	No Disc Name	
2	Disc	DVD+RW
3	Total Titles	3
4	Disc Space Used	0:30:48
5	Disc Protect	OFF
6	Make Edits Compatible	Needed

▼

e.g.) DVD+R

1	No Disc Name	
2	Disc	DVD+R
3	Total Titles	5
4	Disc Space Used	1:30:48
5	Disc Protect	OFF
6	Finalize	Finalized

▼

1. Disc name
   (Default "No Disc Name")
2. Disc type
   (DVD+RW/DVD+R/ DVD-RW/DVD-R)
3. Total number of title
   (include "EMPTY TITLE")
4. Total time of recorded disc space
5. Status of disc protection
   ("ON" is protected disc.)
6. Making edits compatible/finalize
   - When DVD+RW is inserted:
     If the disc needs to be set "Make Edits Compatible", "Needed" is displayed. Otherwise, "Not Needed" is displayed. (Refer to page 68.)
   - When DVD+R, DVD-RW or DVD-R is inserted:
     If "Finalize" is done, "Finalized" is displayed. Otherwise, "Unfinalized" is displayed.

---

5 **Use [▲ / ▼] to select "Play", then press [OK].**

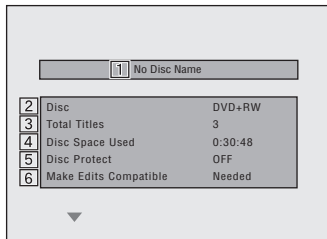|		
Play	**1**	SP (2Hr)
Edit Overwrite	NOV/21/07 11:00AM E1 SP NOV/21/07 0:20:44	
	2	
	NOV/22/07 11:35AM E1 EP NOV/22/07 0:10:33	
	3	
	EMPTY TITLE 1:37:52 SP(2Hr)	

Playback will start.

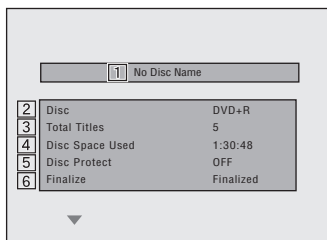**6** **Press [STOP ■] once to stop playback temporarily.**
- Refer to "Resume Playback" on page 47.
To eject the disc, press **[OPEN/CLOSE ▲]** to open the disc tray, then remove the disc before turning off the unit.

BASIC PLAYBACK

Playing Back an Audio CD and a CD-RW/-R with MP3 Files

📀 **CD** 📀 **MP3**

1 Follow steps 1 to 2 in "Direct Playback" on page 42.

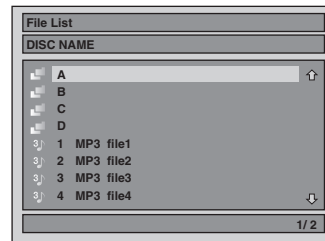**2** Press [OPEN/CLOSE ▲] to close the disc tray.

It may take a while to load the disc completely.

When an audio CD is inserted, track list will appear.

When a CD-RW/-R with MP3 files is inserted, file list will appear.

• To exit the track/file list, press **[STOP ■]**.
• To resume the track/file list, press **[TITLE]**.

3 Use [▲ / ▼] to select a desired folder or track/file, then press [OK].
e.g.) File list

File List
DISC NAME
📁 A ⇧
📁 B
📁 C
📁 D
3♪ 1 MP3 file1
3♪ 2 MP3 file2
3♪ 3 MP3 file3
3♪ 4 MP3 file4 ⇩
1/ 2

When selecting track/file:

Playback will start.

When selecting the folder (Not available for audio CD):
The files in the folder will appear.

Use **[▲ / ▼]** to select the file or folder you want to play back, then press **[OK]**.

• Press **[PLAY ▶]**, **[OK]** or **[▶]** to move to any lower hierarchies.
• Press **[◄]** or **[RETURN]** to move back to the previous hierarchy.

Hints for audio CD tracks and MP3 files:

• Folders are shown by 📁.
• Audio CD tracks are shown by 🎵 .
• MP3 files are shown by **3♪** .
• The system can recognize up to 255 folders, up to 99 tracks/999 files.
• Letters of a file/folder name overflowing the given space will be displayed as "...". Unrecognizable characters will be replaced with asterisks.
• If there are no files in the folder, "No Files" will be displayed.

It is recommended that files to be played back in this unit are recorded under the following specifications:

<MP3>

• Sampling frequency   : 44.1 kHz or 48 kHz.
• Constant bit rate   : 112 kbps - 320 kbps

Note

• The audio source of MP3 files cannot be recorded as digital sound by an MD or DAT deck.
• Files whose extension is other than ".mp3(MP3)" will not be listed.
• Some unplayable folders or files may be listed due to the recording status.

MAGNAVOX

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BASIC PLAYBACK

Using the Title / Disc Menu

DVD VIDEO   DVD +RW   DVD +R   DVD –RW   DVD –R   VCD

DVD or video CD with PBC function may contain a title list, which describes the contents of the disc, or a disc menu, which guides you through the available functions in the disc.

Press [DVD] first.

1) **Press [TITLE] or [DISC MENU] to call up the title list or disc menu.**

2) **Use [▲ / ▼ / ◄ / ►] to make a selection, and then press [OK] to enable your selection.**

3) **Press [STOP ■] to exit.**

Note

- You can select a numbered menu with **[the Number buttons]** also.
- Menus vary among discs. Refer to the information accompanying the disc for details.
- **[TITLE]** or **[DISC MENU]** will not always be active with all DVD.
- For video CD, when "PBC (Video CD only)" in "CD Playback Mode" menu is "ON", the video CD main menu will appear when inserting a disc.

Pause

Press [DVD] first.

1) **During playback, press [PAUSE ❚❚].**
   Playback will be paused and sound will be muted.
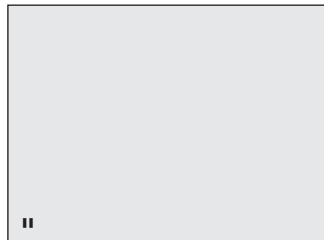
2) **Press [PLAY ►] to return to the normal playback.**

Note

- On DVD, set "Still Mode" to "Field" in "Playback" menu if pictures in the pause mode are blurred. (Refer to page 74.)

SPECIAL PLAYBACK

Resume Playback

You can play back from where you stopped playing back the disc last.

Press [DVD] first.

1) During playback, press [STOP ■].

The resume message will appear.
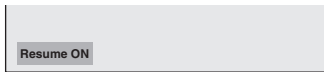
> **Resume ON**

2) Press [PLAY ▶].

In a few seconds, playback will resume from the point at which it stopped last. You can resume playback at the same point even if you turn off the unit.

To cancel the resume playback and start playing back the disc from the beginning, press **[STOP ■]** again while the playback is stopped.

Note
- For MP3 files, playback will resume from the beginning of the file at which playback was stopped.
- Some video CD with the PBC function resume playback from the beginning of the track.

Fast Forward / Fast Reverse Playback

⊘DVD Video ⊘DVD +RW ⊘DVD +R ⊘DVD −RW ⊘DVD −R ⊘VCD WITHOUT PBC

⊘CD ⊘MP3

Press [DVD] first.

1) During playback, press [▶▶] or [◀◀].

Every time you press **[▶▶]** or **[◀◀]**, approximate speed will be changed as follows.

Fast forward or fast reverse playback across titles (for DVD) or files (for MP3 files) is not possible.

40x ▶▶ / ◀◀ 20x ▶▶ / ◀◀ 5x ▶▶ / ◀◀ normal speed playback ▶▶ / ◀◀ 2x ▶▶ / ◀◀ 20x ▶▶ / ◀◀ 40x

For video CD, approximate forward/reverse speeds are 2x, 8x, 16x.

For audio CD, MP3 files, approximate speed is fixed at 8x with sound (indicated with ▶▶▶▶ / ▶◀◀◀).

2) Press [PLAY ▶] to return to the normal playback.

Note
- Forward/reverse speed will be indicated with icons as follows.

  forward (approx. speed)
  - 2x: ▶▶
  - 20x: ▶▶▶
  - 40x: ▶▶▶▶

  reverse (approx. speed)
  - 5x: ▶◀
  - 20x: ▶◀◀
  - 40x: ▶◀◀◀

Skipping TV Commercials During Playback

⊘DVD Video ⊘DVD +RW ⊘DVD +R ⊘DVD −RW ⊘DVD −R

You can skip TV commercials to enjoy the recorded programs without interrupting.

Press [DVD] first.

During playback, press [CM SKIP].

Normal playback will start at 30 seconds ahead from the point you press **[CM SKIP]**.

Every time you press **[CM SKIP]**, the searching point will be extended by 30 seconds ahead.

You can press **[CM SKIP]** up to 6 times (180 seconds).

e.g.) Press **[CM SKIP]** once.

> **CM Skip 30 sec.**
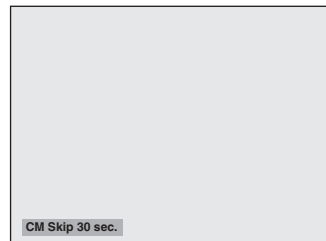
(forwarding 30 seconds)

↓

> ▶
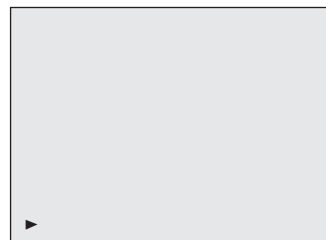
Playback will return to the normal playback.

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Rapid

DVD
+R   DVD
     -RW

Rapid play function is availab
playback.
Th... ...ion is available only on d...
Do... ...igital format, and plays ba...
slo... ...peed while keeping the s...
normal playback.

Press [DVD] first.

During playback, press [RA...

♪ :   Press **[RAPID PLAY]**
      Plays back approxim...
      playback.

♪♪ : Press **[RAPID PLAY...**
      Plays back approxi...
      playback.

:   Press **[RAPID PLA...**
      normal speed.
      No effects.

...res... **[PLAY ▶]**... contin...

SPECIAL PLAYBACK

Zoom

⊘DVD ⊘DVD ⊘DVD ⊘DVD ⊘DVD ⊘VCD
Video   +RW   +R   −RW   −R

Press [DVD] first.

1) During playback, press [DISPLAY].

2) Use [◄ / ►] to select 🔍 , then press [OK] within 1 second or wait for 1 second to display the selection menu.

e.g.) DVD-video

> **T** 1/ 5 **C** 1/ 5 🕐 0:01:00 / 1:23:45
> 🔍◀🔳🖲⟳🔛NF🔍🖼️ DVD Video
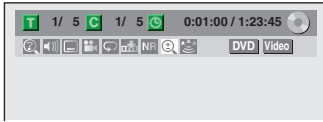
3) Use [▲ / ▼] to select a desired zoom factor to zoom, then press [OK].

> **T** 1/ 5 **C** 1/ 5 🕐 0:01:00 / 1:23:45
> 🔍◀🔳🖲⟳🔛NF🔍🖼️ DVD Video
> 🔍 x 1.2
> 🔍 x 1.5
> 🔍 x 2.0
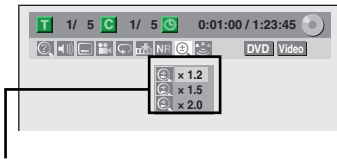
Zoom menu will appear.

There are four options

(x1.0, x1.2, x1.5 and x2.0), these are displayed excluding the current zoom rate.

Zoom area will be displayed.

4) Use [▲ / ▼ / ◄ / ►] to select a desired zoom position, then press [OK].
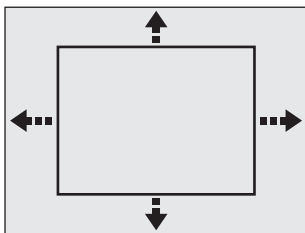
Zoom playback will start.

Note

- When selecting a smaller factor than the current one, the zoom area will not be displayed.
- To exit the zoom menu, press **[DISPLAY]** again at step 1.
- To cancel the zoom function, select "x1.0" using **[▲ / ▼]**, then press **[OK]**.

Marker Setting

⊘DVD ⊘DVD ⊘DVD ⊘DVD ⊘DVD ⊘VCD
Video   +RW   +R   −RW   −R   WITHOUT PBC

⊘CD

This feature allows you to assign a specific point on a disc to be called back later.

Press [DVD] first.

1) During playback, press [DISPLAY].

2) Use [◄ / ►] to select 📑 , then press [OK] within 1 second or wait for 1 second to display the marker list.

e.g.) DVD-video

> **T** 1/ 5 **C** 1/ 5 🕐 0:01:00 / 1:23:45
> 🔍◀🔳🖲⟳🔛NF🔍🖼️ DVD Video
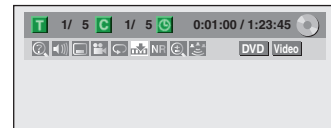
3) Use [▲ / ▼] to select a desired marker number. When it reaches the desired point, press [OK].

> **T** 1/ 5 **C** 1/ 5 🕐 0:01:00 / 1:23:45
> 🔍◀🔳🖲⟳🔛NF🔍🖼️ DVD Video
> ☆ – – –
> ☆ – – –
> ☆ – – –
> ☆ – – –
> ☆ – – –
> ☆ – – –
> ▷
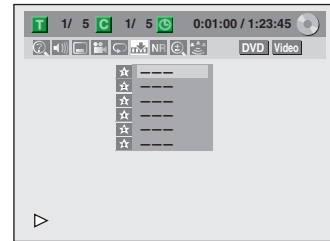
The title (track) number and the time will be displayed.

4) To return to the marker later:

Use [▲ / ▼] to select the desired marker number, then press [OK].

Note

- To clear a marker, select the marker number to be cleared, then press **[CLEAR]**.
- All markers will be erased when you operate these operations listed below.
- Opening the disc tray
- Turning off the power
- Record on a recordable disc
- You can mark up to 6 points.
- Marker setting is not available when you play back the video CD with PBC function.

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SEARCH

Title / Chapter Search

Using [PREV |◀◀] / [NEXT ▶▶|]

Press [DVD] first.

1) **During playback, press [NEXT ▶▶|] to skip the current title or chapter and move to the next.**
   The title or chapter will move forward by one at a time.
   • If there is no chapter in one title, the current title will be skipped.

   To go back to the beginning of the current title or chapter, press **[PREV |◀◀]**.
   Press it repeatedly to go to the previous title or chapter. The title or chapter will move backward one at a time.

Using [DISPLAY]

Press [DVD] first.

1) **During playback, press [DISPLAY].**

2) **Use [◀ / ▶] to select ⊙ , then press [OK].**
   e.g.) DVD-video
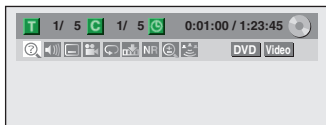
   The number next to **T** will be highlighted.

3) **Title:**
   Use [▲ / ▼] or [the Number buttons] to enter a desired title number to search, then press [OK].
   Title search will start.

   Chapter:
   Press [▶] to move to the number next to C for chapter.
   Use [▲ / ▼] or [the Number buttons] to enter a desired chapter number to search, then press [OK].
   After the search, playback will start automatically.

Note
• In search mode display, total numbers of each search contents (title/chapter/time) are shown as a denominator.

   total number of titles
   total number of chapters
   total time of the title
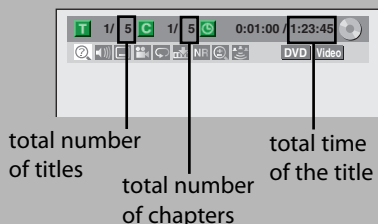
Track Search

Using [PREV |◀◀] / [NEXT ▶▶|]

Press [DVD] first.

1) **During playback, press [NEXT ▶▶|] to skip the current track/file and move to the next.**
   The track/file will move forward one at a time.
   To go back to the beginning of the current track/file, press **[PREV |◀◀]**.
   Press it repeatedly to go to the previous track/file. The track/file will move backward one at a time.

Using [DISPLAY]

Press [DVD] first.

1) **During playback, press [DISPLAY].**

2) **Use [◀ / ▶] to select ⊙ , then press [OK].**
   e.g.) audio CD
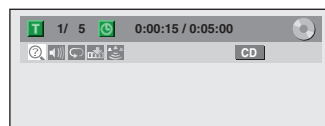
   e.g.) MP3 files
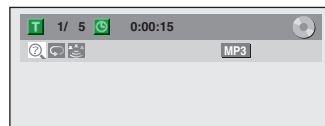
   The number next to **T** will be highlighted.

3) **Use [▲ / ▼] or [the Number buttons] to enter a desired track/file number to search, then press [OK].**
   After the search, playback will start automatically.

Note
• During CD playback you can enter a track number directly using **[the Number buttons]** for track search without displaying the menu.
• Track search is not available when you play back the video CD with PBC function.

SEARCH

Time Search

⊘DVD Video ⊘DVD +RW ⊘DVD +R ⊘DVD –RW ⊘DVD –R ⊘VCD WITHOUT PBC
⊘CD

Press [DVD] first.

1) During playback, press [DISPLAY].

2) Use [◄ / ►] to select 🔍 , then press [OK].

e.g.) DVD-video

| T 1/ 5 | C 1/ 5 | 🕐 0:01:00 / 1:23:45 | |
| DVD | Video |
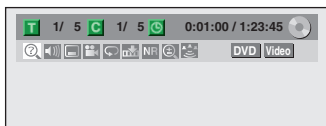
e.g.) audio CD

| T 1/ 5 | 🕐 0:00:15 / 0:05:00 | |
| CD |
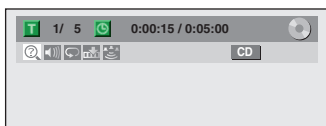
The number next to **T** will be highlighted.

To move to the number next to 🕐 , press **[►]**.

When time search is not available, 🕐 and time counter are not displayed.

3) Use [▲ / ▼ / ◄ / ►] or [the Number buttons] to enter a desired time to search, then press [OK].
After the search, playback will start automatically.

Note

- Time search is available only in the same track, file or title.
- Time search is not available when you play back the video CD with PBC function.

Introduction

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

VCR Functions

Others

Español

Repeat Playback

ailable repeat function may v   ding the discs.

ess [DVD] first.

During playback press [DISP

Use [◄ / ►] to select 🔁 , th   OK] within 1 second or wait for 1 second   y the selection menu.

T	1/ 5	C	1/ 5	🕐		⊙
🔍 📣 📺 🗓 🔁 🔢 NF 🔍						

Use [▲ / ▼] to select a desire   to repeat, then press [OK].

e.g.) DVD-video

T	1/ 5	C	1/ 5	🕐		⊙
🔍 📣 📺 🗓 🔁 🔢 NF 🔍						

✔ OFF
Title
Chapter
A – B

e.g.) audio CD, video CD

T	1/ 5	🕐	0:00:15 / 0:0		⊙
🔍 📣 🔁 🗓 🖾					

✔ OFF
Track
All
A – B

e.g.) MP3 files

	1/ 5	0:00:15		⊙
🖾				

Random Playback

⊘VCD ⊘CD ⊘MP3

Program Playback

⊘VCD ⊘CD
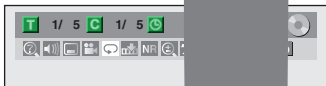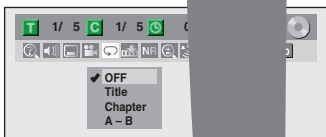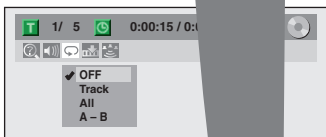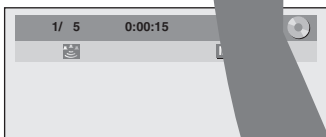
You can program the disc to play back in your desired order.

Press [DVD] first.

1) Press [SETUP].

2) Use [▲ / ▼] to select "CD Playback Mode", then press [OK].

"CD Playback Mode" menu will appear.

3) Use [▲ / ▼] to select "Program Play", then press [OK].

4) Use [▲ / ▼] to select a desired track, then press [OK] or [▶].

```
┌──────────────────────────────────┐
│ ⊡ CD Playback Mode               │
│ Program Play                      │
│ ┌────────────────────────────┐   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ │   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ │   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ │   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ │   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ --   │   │
│ │                 Total   0:00:00 │   │
│ └────────────────────────────┘   │
└──────────────────────────────────┘
```
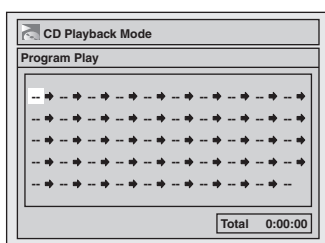
Repeat this step until you program all the desired tracks.

5) Press [PLAY ▶].

```
┌──────────────────────────────────┐
│ ⊡ CD Playback Mode               │
│ Program Play                      │
│ ┌────────────────────────────┐   │
│ │ 09➜ 04➜ 10➜ 06➜ -- ➜ -- ➜ -- ➜ -- ➜ │   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ │   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ │   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ │   │
│ │ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ -- ➜ --   │   │
│ │                 Total   0:31:07 │   │
│ └────────────────────────────┘   │
└──────────────────────────────────┘
```
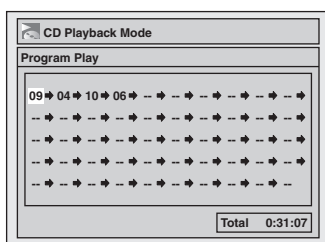
Program playback will start.

Note

- To erase tracks you selected, press **[CLEAR]** at step 4.
- You can make program settings up to 50 tracks.
- To cancel program playback, press **[STOP ■]** twice during program playback. "OFF" appears on the TV screen.
- You may also select a desired track using **[the Number buttons]** at step 4.
- For video CD with PBC function, the PBC setting will be switched to off automatically when you start program playback.

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

VCR Functions

Others

Español

SELECTING THE FORMAT OF AUDIO AND VIDEO

You can select the format of audio and video as you prefer depending on the contents of the disc you are playing back.

Switching Subtitles

⊘DVD ⊘VCD

DVD-video may have subtitles in 1 or more languages. Available subtitle languages can be found on the disc case. You can switch subtitle languages anytime during playback.

Press [DVD] first.

1) During playback, press [DISPLAY].

2) Use [◄ / ►] to select ▢ , then press [OK] within 1 second or wait for 1 second to display the selection menu.

e.g.) DVD-video

T	1/ 5	C	1/ 5	⏱	0:01:00 / 1:23:45

DVD Video
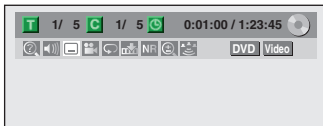
3) Use [▲ / ▼] to select a desired subtitle language, then press [OK].

T	1/ 5	C	1/ 5	⏱	0:01:00 / 1:23:45

DVD Video
✓ OFF
1.English

Subtitle will be displayed in the selected language. When selecting "OFF", subtitle will disappear.

Note

- Some discs will only allow you to change the subtitle from the disc menu. Press **[TITLE]** or **[DISC MENU]** to display the disc menu.
- If a 4-digit language code appears in the subtitle menu, refer to the "LANGUAGE CODE" on page 87.

Switching Audio Soundtrack

⊘DVD ⊘VCD ⊘CD

When playing back a DVD-video recorded with 2 or more soundtracks (these are often in different languages), you can switch them during playback.
When playing back video CD, audio CD you can switch "L/R"(stereo), "L"(left) or "R"(right).

Press [DVD] first.

1) During playback, press [DISPLAY].

2) Use [◄ / ►] to select ◀)) , then press [OK] within 1 second or wait for 1 second to display the selection menu.

3) Use [▲ / ▼] to select a desired audio soundtrack or audio channel, then press [OK].

For DVD-video

- Audio soundtrack will switch.

T	1/ 5	C	1/ 5	⏱	0:01:00 / 1:23:45

DVD Video
✓ 1.Dolby Digital 5.1ch English
2.Dolby Digital 2ch English

- If the title contains both main and sub audio, you can further select "L" (main), "R" (sub), or "L/R" (mixed of main and sub).

For audio CD, video CD

- Audio channel will switch.

e.g.) audio CD

T	1/ 5	⏱	0:00:15 / 0:05:00

CD
✓ 1. L/R
2. L
3. R

Note

- Some discs will only allow you to change the soundtrack from the disc menu. Press **[TITLE]** or **[DISC MENU]** to display the disc menu.

SELECTING THE FORMAT OF AUDIO AND VIDEO

Switching Virtual Surround System

DVD **DVD** **DVD** **DVD** **DVD** **VCD**
VIDEO **+RW** **+R** **−RW** **−R**
CD **MP3**

You can enjoy stereophonic virtual space through your existing 2 channel stereo system.
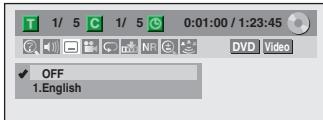
Press [DVD] first.

1) During playback, press [DISPLAY].

2) Use [◄ / ►] to select [icon], then press [OK] within 1 second or wait for 1 second to display the selection menu.

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  G  0:01:00 / 1:23:45
[icons]                      DVD Video
```
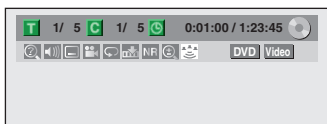
3) Use [▲ / ▼] to select "OFF", "Type 1" or "Type 2", then press [OK].

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  G  0:01:00 / 1:23:45
[icons]                      DVD Video
                    ✔ OFF
                      Type 1
                      Type 2
```

OFF : no effect
Type 1 : natural effect
Type 2 : emphasized effect

Note
- Select "OFF" in a case sound is distorted.
- The setting will be kept even when the unit is turned off.

Switching Camera Angles

DVD
VIDEO

Some DVD-video have scenes shot from 2 or more angles. Angle information should be on the disc case if the disc contains multi-angle scenes.

Press [DVD] first.

1) During playback, press [DISPLAY].

2) Use [◄ / ►] to select [icon], then press [OK].

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  G  0:01:00 / 1:23:45
[icons]                      DVD Video




▷                           ┌─[icon]
```
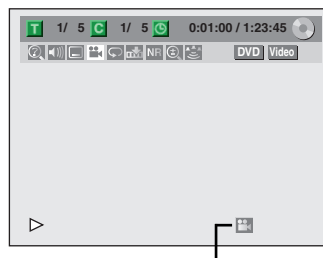
Angle icon appears when a switching camera angle is available.

Angle will switch each time you press **[OK].**

Note
- Angle icon does not appear on the TV screen in a case you set "Angle Icon" to "OFF" in "Playback" menu. Refer to page 74.

Reducing Block Noise

DVD **DVD** **DVD** **DVD** **DVD** **VCD**
VIDEO **+RW** **+R** **−RW** **−R**
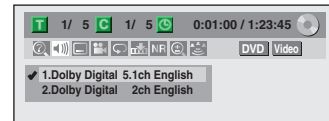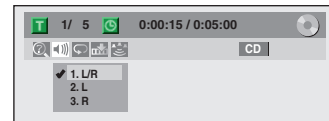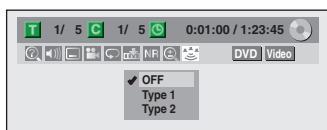
Press [DVD] first.

1) During playback, press [DISPLAY].

2) Use [◄ / ►] to select NR, then press [OK] within 1 second or wait for 1 second to display the selection menu.

e.g.) DVD-video

```
T  1/ 5  C  1/ 5  G  0:01:00 / 1:23:45
[icons] NR [icons]           DVD Video
```
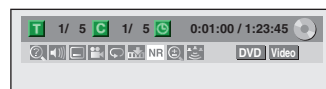
3) Use [▲ / ▼] to select a desired option, then press [OK].

```
T  1/ 5  C  1/ 5  G  0:01:00 / 1:23:45
[icons] NR [icons]           DVD Video
                    ✔ OFF
                      Type 1
                      Type 2
```
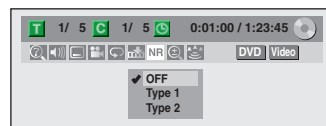
Your setting will be activated.

This function reduces noise in the playback picture. If noises appear on the TV screen during playing back discs recorded in long time recording mode such as EP or SLP, select "Type 1" or "Type 2".

("Type 2" is more effective.)

When playing back discs with a few noises such as DVD-video, select "OFF".

EN 55

Guide to a Title List

Title list allows you to check the titles recorded on the disc easily. You can choose a title to play back from this list and easily edit the titles as you prefer.

Press [TITLE].
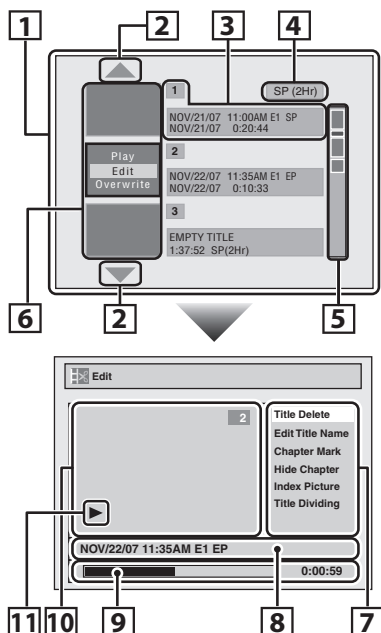
1. **Title list:** List of the titles recorded on the disc, and their information.
2. **Arrow:** Indicating there is a previous / next page.
3. **Title information:** On the first line, title name (editable) is displayed. On the second line, the length of the title is displayed.
   Empty title: The portion of the disc where there is no recordings are made. As for the empty title, available recording time by the selected recording mode is displayed on the second line.
4. **Recording mode:** Currently selected recording mode is displayed here.
5. **Capacity indicator:** Indicating the position and the amount of each title in the disc. The portion for the selected title is highlighted.
6. **Thumbnails:** A cut from the recorded content is displayed here.
7. **Submenu:** Submenus for the selected menu are displayed here.
8. **Title name** (editable)**:** If you do not name the title, the recorded date, time, selected external input position, and the recording mode are displayed here.
9. **Progress bar:** Indicating the progress of the playback.
10. **Preview window:** Preview of the selected title is displayed here.
11. **Playback status:** Indicating the current playback status of the selected title.

Press [STOP ■] to exit the title list.

Editing Discs

You can edit discs for the following items. Be sure that once you edit titles, they will not remain as original.
• Deleting Titles (Refer to page 57.)
• Putting Names on Titles (Refer to page 58.)
• Setting Chapter Marks (Refer to page 59.)
• Clearing Chapter Marks (Refer to pages 60-61.)
• Hiding Chapters (Refer to page 62.)
• Setting Pictures for Thumbnails (Refer to page 63.)
• Dividing a Title (DVD+RW/DVD-RW only) (Refer to page 64.)
• Putting Name on Disc (Refer to page 65.)
• Setting or Releasing Disc Protect (Refer to page 66.)
• Erasing Disc (Refer to page 67.)
• Making Edits Compatible (Refer to page 68.)

Note
• When selecting "Edit" on pop-up menu of the title list and edit the title, the title list is displayed after writing the edited contents onto the disc.
• The capacity indicator in the right side of the title list may not indicate the precise capacity in the disc.
• The capacity indicator may not indicate the capacity for the titles of which recording time is short.
• Once you have finalized a DVD+R/DVD-R, you cannot edit or record anything on that disc.
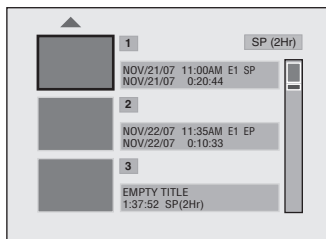
EDITING DISCS

Deleting Titles

You can delete titles which you do not need anymore.
Please be advised that the titles once deleted cannot be brought back to the disc.

For DVD+RW/DVD-RW, when the last recorded title in the title list is deleted, the available disc space to record on will be increased. For DVD+R/DVD-R, the disc space to record on will not be changed.

3 **Use [▲ / ▼] to select "Edit", then press [OK].**
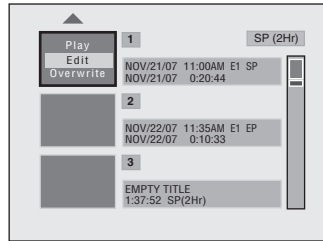
```
                    1              SP (2Hr)
   Play
   Edit          NOV/21/07  11:00AM  E1  SP
   Overwrite     NOV/21/07   0:20:44

                    2

                 NOV/22/07  11:35AM  E1  EP
                 NOV/22/07   0:10:33

                    3

                 EMPTY TITLE
                 1:37:52  SP(2Hr)
```

4 **Use [▲ / ▼] to select "Title Delete", then press [OK].**

```
 Edit

                    1         Title Delete
                              Edit Title Name
                              Chapter Mark
                              Hide Chapter
                              Index Picture
                              Title Dividing

   ▶
 NOV/21/07  11:00AM  E1  SP
                                      0:00:59
```

5 **Use [▲ / ▼] to select "Yes", then press [OK].**

```
 Edit - Title Delete

                    1         Yes
                              No

   ▶
 NOV/21/07  11:00AM  E1  SP
                                      0:00:59
```

After that, "Are you sure?" will appear, select "Yes" and then press **[OK]**.
Title will be deleted.
Data will be written onto the disc momentarily.

```
Writing to Disc     ━━━━━━━━━━   90%
```

This operation may take a while to be completed.

After editing is complete, the title list will appear.
e.g.) DVD+RW/DVD-RW

```
                    1              SP (2Hr)

                 EMPTY TITLE
                 0:21:14  SP(2Hr)

                    2

                 NOV/22/07  11:35AM  E1  EP
                 NOV/22/07   0:10:33

                    3

                 EMPTY TITLE
                 1:37:52  SP(2Hr)
```

1 **Press [DVD] first.**
Press [TITLE].

2 **Use [▲ / ▼] to select a desired title, then press [OK].**

```
                    1              SP (2Hr)

                 NOV/21/07  11:00AM  E1  SP
                 NOV/21/07   0:20:44

                    2

                 NOV/22/07  11:35AM  E1  EP
                 NOV/22/07   0:10:33

                    3

                 EMPTY TITLE
                 1:37:52  SP(2Hr)
```
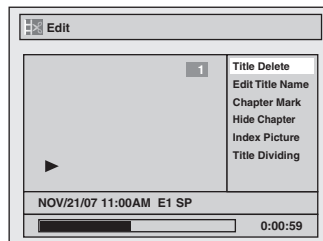
Note
- Deleted part of the titles in the capacity indicator changes in color.
- As for DVD+RW/DVD-RW if you delete the title, deleted title will be displayed as "EMPTY TITLE".
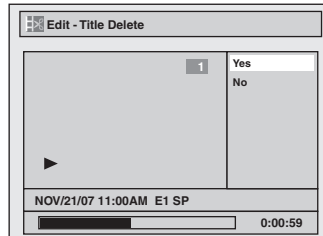
Putting Names on Titles

You can put title names on the titles and change the names from this menu.

1 **Follow steps 1 to 3 in "Deleting Titles" on page 57 to display "Edit" menu.**

2 **Use [▲ / ▼] to select "Edit Title Name", then press [OK].**

Edit

Title Delete
Edit Title Name
Chapter Mark
Hide Chapter
Index Picture
Title Dividing

NOV/21/07 11:00AM E1 SP
0:00:59

3 **To enter a title name, follow the steps of "Guide to Edit Title Name" on this page.**

Edit - Edit Title Name

A B C
a b c
1 2 3
@ ! ?

character set

MI
0:00:59

area for entering title names

When you finish entering a title name, press **[OK]**.

4 **Use [▲ / ▼] to select "Yes", then press [OK].**

Edit - Edit Title Name

Yes
No

MY FAVORITE
0:00:59

The name you entered will be activated for the title.
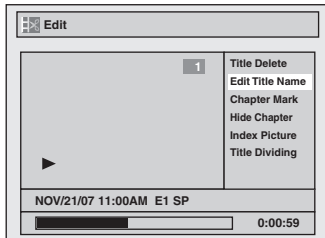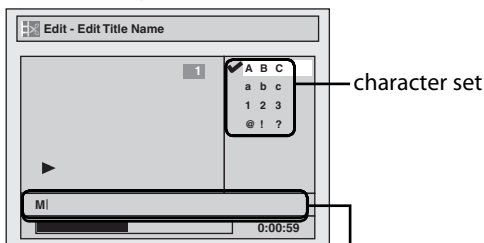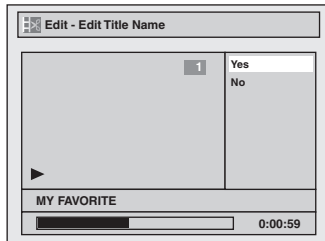
5 **After this operation is completed, press [RETURN] to exit.**
Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Guide to Edit Title Name

1) Use [▲ / ▼] to select a desired character set, then press [OK].

2) Follow the list below, use [the Number buttons] repeatedly until the desired letter appears.

Select Press	ABC	abc	123	@!?
0	\<space\>	\<space\>	0	\<space\>
1	(*1)	(*1)	1	! " # $ % & ' ( ) * + , - . / : ; < = > ? @ [ ] ^ _ { | }
2	ABC	abc	2	(*2)
3	DEF	def	3	(*2)
4	GHI	ghi	4	(*2)
5	JKL	jkl	5	(*2)
6	MNO	mno	6	(*2)
7	PQRS	pqrs	7	(*2)
8	TUV	tuv	8	(*2)
9	WXYZ	wxyz	9	(*2)

*1 Press (1), character set will be changed to the " @!? " mode automatically.

*2 Press (2) to (9), character set will be changed to the previous input mode automatically.

• To delete letters, press **[CLEAR]** repeatedly. Holding **[CLEAR]** to delete all letters.

• Use **[◄ / ►]** to move the cursor to the left and right.

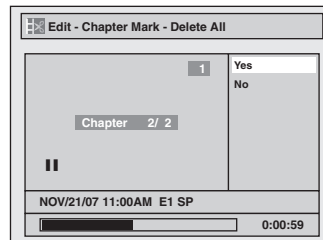• You can enter up to 30 letters.

Note

• Undefined letters in a title name are shown by "*". If you delete them, adjoining letters may change to "*" or other.

Clearing Chapter Marks (cont'd)

Connections

Basic Setup

Recording

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Others

Español

To delete all chapter marks:

1 **Follow steps 1 to 3 in "Deleting Titles" on page 57 to display "Edit" menu.**

2 **Use [▲ / ▼] to select "Chapter Mark", then press [OK].**
Submenu will appear.

3 **Use [▲ / ▼] to select "Delete All", then press [OK].**

4 **Use [▲ / ▼] to select "Yes", then press [OK].**

> Edit - Chapter Mark - Delete All
>
> 1   Yes
>   No
>
> Chapter   2/ 2
>
> ❚❚
>
> NOV/21/07 11:00AM E1 SP
>
> 0:00:59

5 **Use [▲ / ▼] to select "Yes", then press [OK].**

> Edit - Chapter Mark - Delete All
>
> 1   Are you sure?
>   Yes
>   No
>
> Chapter   2/ 2
>
> ❚❚
>
> NOV/21/07 11:00AM E1 SP
>
> 0:00:59
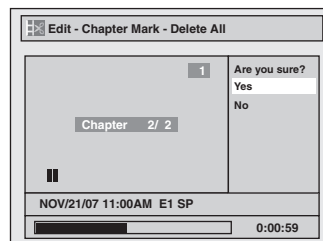
All chapter marks will be deleted.

6 **Press [RETURN] twice to exit.**
Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Note

• Remaining time of the disc may decrease when adding chapter marks or increase when clearing chapter marks depending on the recording time or edited contents.

Hiding Chapters

You can hide chapters from the title list.
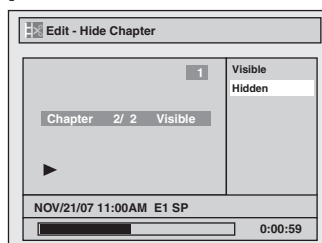Hidden chapters are skipped during playback.

1 **Follow steps 1 to 3 in "Deleting Titles" on page 57 to display "Edit" menu.**

2 **Use [▲ / ▼] to select "Hide Chapter", then press [OK].**
Submenu will appear.

3 **Use [PREV |◄◄] / [NEXT ►►|] to decide the chapter to be hidden.**

4 **Use [▲ / ▼] to select "Hidden", then press [OK].**

> **Edit - Hide Chapter**
>
> 1   Visible
>   **Hidden**
>
> Chapter   2/ 2   Visible
>
> ►
>
> NOV/21/07 11:00AM E1 SP
>
> 0:00:59

5 **After this operation is completed, press [RETURN] twice to exit.**
Data will be written onto the disc momentarily.

This operation may take a while to be completed.

If you want hidden chapters to be "Visible", select the chapter to be shown. Then use [▲ / ▼] to select "Visible" at the step 4 on this page.
Data will be written onto the disc momentarily. After that, title list is displayed.

Note
- "Hidden" will be displayed in the preview window while previewing the hidden chapter.
- When you make all chapters in the title "Hidden", "Hidden" is displayed in a thumbnail of the title list.

> 1   SP (2Hr)
> Hidden   NOV/21/07 11:00AM E1 SP
>   NOV/21/07 0:20:44
> 2
>   NOV/22/07 11:35AM E1 EP
>   NOV/22/07 0:10:33
> 3
>   EMPTY TITLE
>   1:37:52 SP(2Hr)
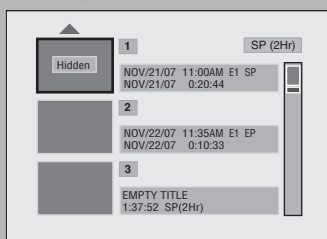
Setting Pictures for Thumbnails

1 **Follow steps 1 to 3 in "Deleting Titles" on page 57 to display "Edit" menu.**

2 **Use [PREV |◀◀], [NEXT ▶▶|], [◀◀], [▶▶], [PAUSE ❚❚] and [PLAY ▶] to decide the picture you want to select as a thumbnail.**

3 **Use [▲ / ▼] to select "Index Picture", then press [OK].**

4 **Use [▲ / ▼] to select "Yes", then press [OK].**

No Yes
No

Introduction

Connections

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Español

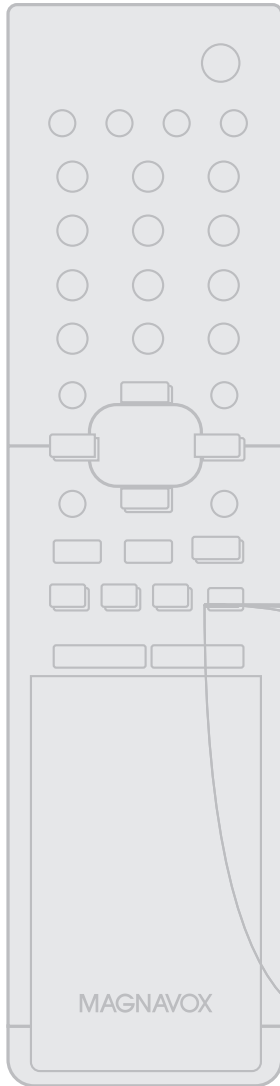## Dividing a Title

DVD +RW DVD -RW
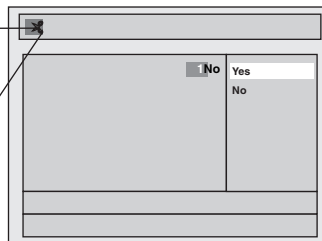
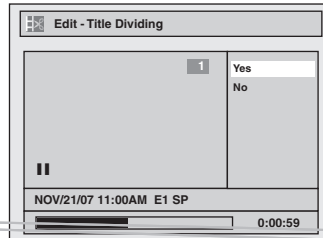You can divide one title into 2 new titles.

1 **Follow steps 1 to 3 in "Deleting Titles" on page 57 to display "Edit" menu.**

2 **Use [PREV |◀◀], [NEXT ▶▶|], [◀◀], [▶▶], [PAUSE ❚❚] and [PLAY ▶] to decide the point at which you will divide the title.**

3 **Use [▲ / ▼] to select "Title Dividing", then press [OK].**

4 **Use [▲ / ▼] to select "Yes", then press [OK].**

```
┌────────────────────────────────────────┐
│ ▦ Edit - Title Dividing                 │
├────────────────────────────────────────┤
│                          1   Yes        │
│                              No         │
│                                         │
│                                         │
│  ❚❚                                     │
│  NOV/21/07 11:00AM  E1 SP               │
│ ▬▬▬▬▬▬▬▬▬▬▬▬▬▬▬          0:00:59       │
└────────────────────────────────────────┘
```

The title will be divided into 2 new titles.
Both title names are identical, and index pictures are reset to the first scene at this point.

Data will be written onto the disc momentarily.

This operation may take a while to be completed.

MAGNAVOX

Note
• You cannot divide a title of the disc when the number of recording titles reaches the maximum of 49, and the number of recording chapters reaches the maximum of 254.

Putting Name on Disc

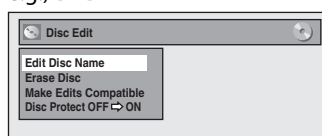You can put a name on the disc and change it from this menu.
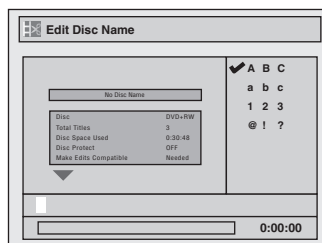
Press **[STOP ■]** if you are playing back a disc.

1 **Press [DVD] first.**
Press [SETUP].

2 **Use [▲ / ▼] to select "Disc Edit", then press [OK].**

3 **Use [▲ / ▼] to select "Edit Disc Name", then press [OK].**
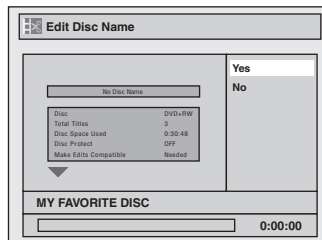e.g.) DVD+RW

Disc Edit
Edit Disc Name
Erase Disc
Make Edits Compatible
Disc Protect OFF ⇨ ON

A window for entering a title name will appear.

Edit Disc Name

No Disc Name

Disc		DVD+RW
Total Titles		3
Disc Space Used		0:30:48
Disc Protect		OFF
Make Edits Compatible		Needed

✔ A B C
a b c
1 2 3
@ ! ?

0:00:00

4 **To enter a disc name, follow the steps of "Guide to Edit Title Name" on page 58.**
When you finish entering a title name, press **[OK]**.

5 **Use [▲ / ▼] to select "Yes", then press [OK].**

Edit Disc Name

No Disc Name

Disc		DVD+RW
Total Titles		3
Disc Space Used		0:30:48
Disc Protect		OFF
Make Edits Compatible		Needed

Yes
No

MY FAVORITE DISC

0:00:00

The name you entered will be activated for the title.
Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Note
• You cannot select "Disc Edit" when finalized DVD+R or DVD-R is inserted.

STANDBY-ON

SOURCE   TIMER SET   DISPLAY   OPEN/CLOSE

.@/: 1   ABC 2   DEF 3
GHI 4   JKL 5   MNO 6
PQRS 7   TUV 8   WXYZ 9
TIMER   SPACE 0   CLEAR

DISC MENU   SETUP

OK

TITLE   RETURN

TRACKING
−   +

VCR   DVD

REC   REC MODE   D.DUBBING   AUDIO

CM SKIP   SEARCH   RAPID PLAY

MAGNAVOX

N8552

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

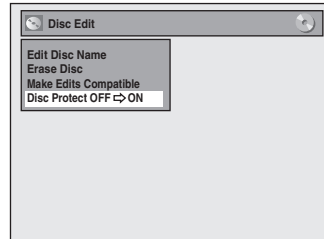VCR Functions

Others

Español

EN   65

Setting or Releasing Disc Protect

To prevent accidental editing, or erasing the titles, you can protect them.
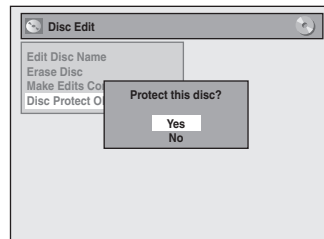
1 **Follow steps 1 to 2 in "Putting Name on Disc" on page 65 to display "Disc Edit" menu.**

2 **Use [▲ / ▼] to select "Disc Protect OFF ➡ ON", then press [OK].**
e.g.) DVD+RW

Disc Edit

Edit Disc Name
Erase Disc
Make Edits Compatible
Disc Protect OFF ➡ ON

• If the disc is already protected, "Disc Protect ON ➡ OFF" will appear instead of "Disc Protect OFF ➡ ON".

3 **Use [▲ / ▼] to select "Yes", then press [OK].**

Disc Edit

Edit Disc Name
Erase Disc
Make Edits Co
Disc Protect O

Protect this disc?

Yes
No

Data will be written onto the disc momentarily.

This operation may take a while to be completed.
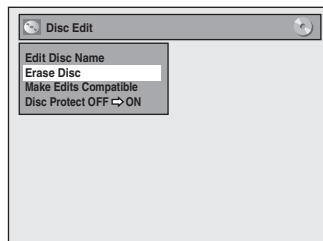
Erasing Disc

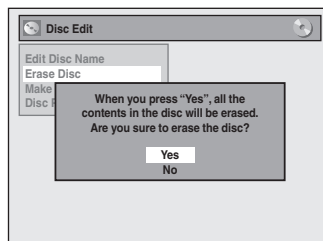### ⊘DVD ⊘DVD
+RW -RW

You can erase all titles on a disc.

Press **[STOP ■]** if you are playing back a disc.

1 **Follow steps 1 to 2 in "Putting Name on Disc" on page 65 to display "Disc Edit" menu.**

2 **Use [▲ / ▼] to select "Erase Disc", then press [OK].**
e.g.) DVD+RW

> **◎ Disc Edit**
>
> Edit Disc Name
> **Erase Disc**
> Make Edits Compatible
> Disc Protect OFF ⇨ ON

3 **Use [▲ / ▼] to select "Yes", then press [OK].**

> **◎ Disc Edit**
>
> Edit Disc Name
> Erase Disc
> Make
> Disc
>
> When you press "Yes", all the contents in the disc will be erased. Are you sure to erase the disc?
>
> Yes
> No

Data will be written onto the disc momentarily.

This operation may take a while to be completed.

Note
• When you select "Yes" at step 3, all contents of the disc will be erased.
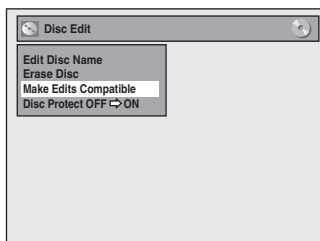
Making Edits Compatible

DVD +RW

If you have added or deleted chapters, or made chapters hidden, you must perform "Make Edits Compatible" to see those effects on other unit.
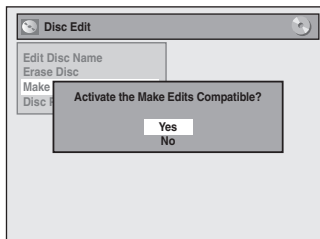
Press **[STOP ■]** if you are playing back a disc.

1 **Follow steps 1 to 2 in "Putting Name on Disc" on page 65 to display "Disc Edit" menu.**

2 **Use [▲ / ▼] to select "Make Edits Compatible", then press [OK].**

> **Disc Edit**
>
> Edit Disc Name
> Erase Disc
> **Make Edits Compatible**
> Disc Protect OFF ⇨ ON

3 **Use [▲ / ▼] to select "Yes", then press [OK].**

> **Disc Edit**
>
> Edit Disc Name
> Erase Disc
> Make
> Disc
>
> **Activate the Make Edits Compatible?**
>
> Yes
> No

Data will be written onto the disc momentarily.

> **This operation may take a while to be completed.**

STANDBY-ON

SOURCE TIMER SET DISPLAY OPEN/CLOSE

@/: ABC DEF
1 2 3

GHI JKL MNO
4 5 6

PQRS TUV WXYZ
7 8 9

TIMER SPACE CLEAR
0

DISC MENU SETUP

▲

◄ OK ►

TITLE RETURN

▼

TRACKING
− +

VCR DVD

REC REC MODE D.DUBBING AUDIO

CM SKIP SEARCH RAPID PLAY

MAGNAVOX

NB552

LIST OF SETTINGS

The following table is the contents which you can set and the default setting. Refer to the following table for useful operation.

Setup	Items (highlight is the default)			Contents
General Setting	Playback → Pages 71-74	Parental Lock		OFF / level 8 [Adult] to 1 [Kid Safe]	Set the parental level for DVD playback.
		Disc Audio	Dynamic Range Control	ON / OFF	Compressing the range of sound volume.
			PCM	48kHz / 96kHz	Set whether the sound recorded in 96kHz will be down sampled in 48kHz.
			Dolby Digital	PCM / Stream	Set the type of sound signal which outputs from the digital audio output jack.
		Disc Menu Language		English / French / Spanish / Other	Set the language for disc menu language.
		Audio Language		Original / English / French / Spanish / Other	Set the language for audio.
		Subtitle Language		OFF / English / French / Spanish / Other	Set the language for subtitles.
		Angle Icon		ON / OFF	Set whether or not to display the angle icon.
		Still Mode		Auto / Field / Frame	Set the type of still image in pausing playback.
	Display → Page 75	OSD Language		English / Français / Español	Set the language for OSD (on-screen display).
		Screen Saver		OFF / 5minutes / 10minutes / 15minutes / 30miniutes	Set the idling time before the screen saver starts.
		FL Dimmer		Auto / Bright / Dark	Set the brightness of the front panel display.
	Video → Pages 76-77	Progressive Scan		ON / OFF	Set to the progressive scan mode (set to "ON") or to the interlace scan mode(set to "OFF").
		TV Aspect		4:3 Letter Box / 4:3 Pan & Scan / 16:9 Wide	Set a picture size according to aspect ratio of your TV.
		Video Input → Page 14	E1(Rear)	Video In / S-Video In	Set the video input type for the external input.
			E2(Front)	Video In / S-Video In	

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LIST OF SETTINGS

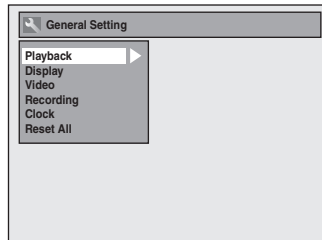| Setup		Items (highlight is the default)			Contents
General Setting	Recording	Auto Chapter → Page 23		OFF 5 minutes **10 minutes** 15 minutes 30 minutes 60 minutes	Insert chapter marks at even time interval.
		Auto Finalize → Page 38	Disc Full	ON **OFF**	Set the unit to finalize the disc automatically.
			End of Timer Rec	ON **OFF**	
		Dubbing Mode → Pages 39-40		**VCR ➡ DVD** DVD ➡ VCR	Set the VCR to DVD (DVD to VCR) duplication.
		Make Recording Compatible → Page 23		ON **OFF**	Set to prohibiting additional recording (OFF) or to replace the title list after recording (ON).
	Clock → Page 21	Clock Setting			Set the clock.
	Reset All → Page 78			Yes **No**	Set to the default setting.

Note
• Your change to each settings stays on even when the power is off.
• An item which is not currently available is grayed in the settings.

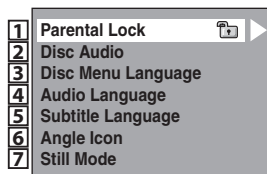# SETUPS

Playback

Press **[STOP ■]** if you are playing back a disc.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**
"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Playback", then press [OK].**

General Setting

Playback
Display
Video
Recording
Clock
Reset All

3 **Use [▲ / ▼] to select a desired item, then press [OK].**

1 Parental Lock
2 Disc Audio
3 Disc Menu Language
4 Audio Language
5 Subtitle Language
6 Angle Icon
7 Still Mode

Submenu will appear.

4 **Refer to 1 to 7 on pages 72-74 and set the selected item.**

5 **When you finish with setting, press [SETUP] to exit.**

MAGNAVOX

NB652

Playback (cont'd)

1 Parental Lock (Default: OFF)

Some DVD-video feature a parental lock level. Playback will stop if the ratings exceed the levels you set, it will require you to enter a password before the disc will playback. This feature prevents your children from viewing inappropriate material.

Use [▲ / ▼] to select the desired level, then press [OK].
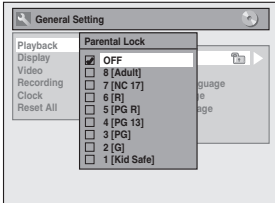

If a password has not been set yet, proceed to **A**.

If a password has been set already, proceed to **B**.

Note

- Parental lock function may not be available to some discs.
- With some DVD, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
- Record the password in case you forget it.
- If there is a DVD in the unit when you set up the parental lock, press **[OPEN/CLOSE ▲]** to activate the parental lock level.
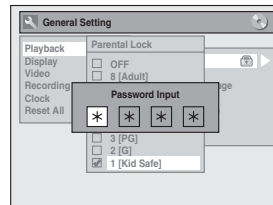
A 🔓 A password has not been set yet.

Use [▲ / ▼] to select "Yes". Use [the Number buttons] to enter a new password except for 4737, then press [OK].
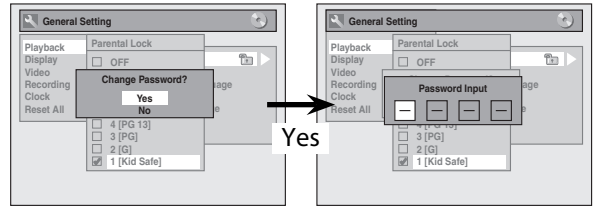
Your setting will be activated.

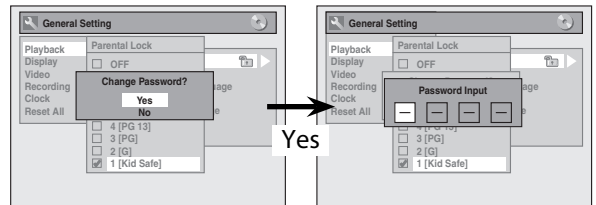### B 🔒 A password has been set already.

- **Use [the Number buttons] to enter the current password.**

Your setting will be activated.

- **If you want to change password, use [▲ / ▼] to select "Yes". Use [the Number buttons] to enter a new password, then press [OK].**

<change the password>

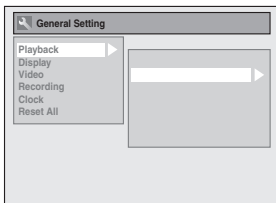Your setting will be activated.

Note

- Press **[CLEAR]** to erase numbers entered incorrectly.
- When you forget the password or you want to clear all settings in "Parental Lock" menu, enter 4,7,3,7 using **[the Number buttons]** in password input window. Password will be cleared and parental levels will be set to "OFF".

SETUPS

2 Disc Audio

Choose the appropriate audio setting for your external device.

It will only affect a disc playback.

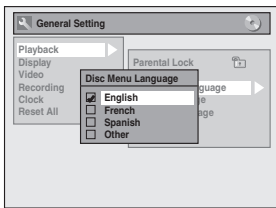**Use [▲ / ▼] to select a desired item, then press [OK].**

```
General Setting
  Playback        ▶
  Display
  Video
  Recording
  Clock
  Reset All
```

SETUPS

Playback (cont'd)

3 | Disc Menu Language (Default : English)

Set the language for disc menu.

Use [▲ / ▼] to select a setting, then press [OK].

```
General Setting
Playback
Display          Parental Lock
Video      Disc Menu Language
Recording  ☑ English          guage
Clock      ☐ French           e
Reset All  ☐ Spanish          age
           ☐ Other
```
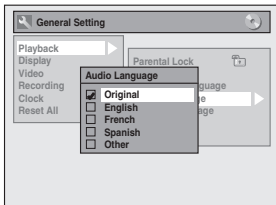
Your setting will be activated.

4 | Audio Language (Default : Original)

Set the audio language.

Use [▲ / ▼] to select a setting, then press [OK].

```
General Setting
Playback
Display          Parental Lock
Video      Audio Language
Recording  ☑ Original        guage
Clock      ☐ English         e
Reset All  ☐ French          age
           ☐ Spanish
           ☐ Other
```
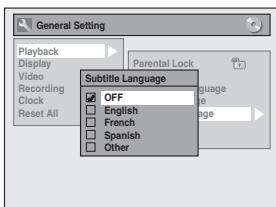
Your setting will be activated.

• When "Original" is selected, the audio language will be in the disc's default language.
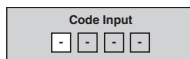
5 | Subtitle Language (Default : OFF)

Set the subtitle language.

Use [▲ / ▼] to select a setting, then press [OK].

```
General Setting
Playback
Display          Parental Lock
Video      Subtitle Language
Recording  ☑ OFF             guage
Clock      ☐ English         e
Reset All  ☐ French          age
           ☐ Spanish
           ☐ Other
```

Your setting will be activated.

If "Other" is selected for **3** to **5** , press 4-digit code using **[the Number buttons]**.

```
Code Input
-  -  -  -
```

• **When you finish entering the code, press [OK]. Refer to the language code table on page 87.**
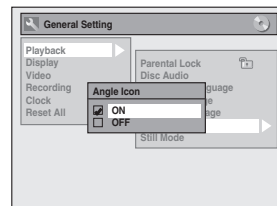
Note

• Only the languages supported by the disc can be selected.
• Audio language setting may not be available to some discs.
• You can change or switch off the subtitles on a DVD also from the disc menu if it is available.
• Press **[CLEAR]** or **[◄]** to erase numbers entered incorrectly.

6 | Angle Icon (Default : ON)

Set to "ON" to show the angle icon during the playback.
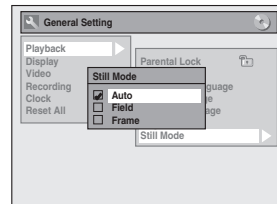
Use [▲ / ▼] to select a setting, then press [OK].

```
General Setting
Playback
Display          Parental Lock
Video            Disc Audio
Recording  Angle Icon        guage
Clock      ☑ ON              e
Reset All  ☐ OFF             age
                 Still Mode
```

Your setting will be activated.

7 | Still Mode (Default : Auto)

Select "Auto" usually.

Use [▲ / ▼] to select a setting, then press [OK].

```
General Setting
Playback
Display          Parental Lock
Video      Still Mode
Recording  ☑ Auto            guage
Clock      ☐ Field           e
Reset All  ☐ Frame           age
                 Still Mode
```

Your setting will be activated.

Auto : Optimum resolution setting ("Field" or "Frame") will be selected.
Field : Images in the still mode will be stabilized.
Frame : Images in the still mode will be highly defined.

Note

• Frame is 1 completed video image made up of 2 fields (There are 30 frames per second of NTSC video).
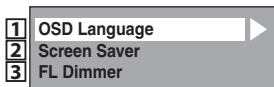
SETUPS

Display

Press **[STOP ■]** if you are playing back a disc.

1 Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

2 Use [▲ / ▼] to select "Display", then press [OK].

3 Use [▲ / ▼] to select a desired item, then press [OK].

    1 OSD Language
    2 Screen Saver
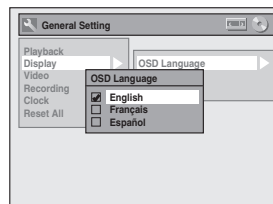   3 FL Dimmer

Selection menu will appear.

4 Refer to 1 to 3 on this page and set the selected item.

5 When you finish with setting, press [SETUP] to exit.

1 OSD Language (Default : English)

Set the language for the on-screen display.

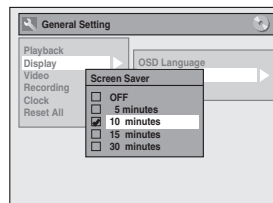**Use [▲ / ▼] to select a setting, then press [OK].**

Your setting will be activated.

2 Screen Saver (Default : 10 minutes)

Set the time to activate the screen saver function on the TV screen.
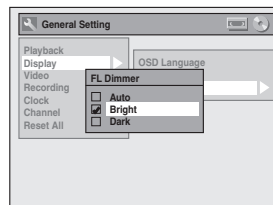
Use [▲ / ▼] to select a setting, then press [OK].

Your setting will be activated.

3 FL Dimmer (Default: Bright)

Set the front panel display brightness.

Use [▲ / ▼] to select a setting, then press [OK].

You can choose one from "Auto", "Bright" and "Dark".
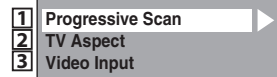If "Auto" is selected, the display gets dark when the power is off.

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Video

Press **[STOP ■]** if you are playing back a disc.

1 Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].

2 Use [▲ / ▼] to select "Video", then press [OK].

3 Use [▲ / ▼] to select a desired item, then press [OK].

1 **Progressive Scan**
2 **TV Aspect**
3 **Video Input**

Submenu will appear.

4 Refer to 1 to 2 on page 77 and set the selected item.
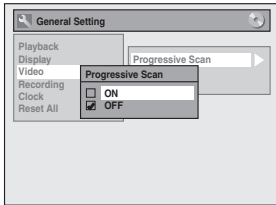• For 3 refer to page 14.

5 When you finish with setting, press [SETUP] to exit.
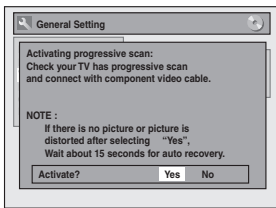
SETUPS

Video (cont'd)

1 | Progressive Scan (Default : OFF)

This unit is compatible with the progressive scan system. The feature provides you with the higher definition images than the traditional output system does. To utilize this feature, you must set progressive scan mode to "ON".

1) Use [▲ / ▼] to select "ON", then press [OK].

General Setting	
Playback	
Display	Progressive Scan
Video	
Recording	**Progressive Scan**
Clock	☐ ON
Reset All	☑ OFF

2) Use [◄ / ►] to select "Yes", then press [OK].

General Setting
Activating progressive scan:
Check your TV has progressive scan
and connect with component video cable.
NOTE :
If there is no picture or picture is
distorted after selecting "Yes",
Wait about 15 seconds for auto recovery.
Activate?   Yes   No

3) Use [▲ / ▼] to select "Yes" within 15 seconds, then press [OK].
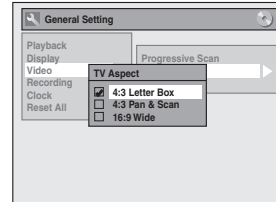Your setting will be activated.

Note

• If your TV is compatible with progressive scan (525p / 480p), you are recommended to use the component video cable (commercially available) to connect this unit to the TV. (Refer to "Method 2" on page 15.) If not, use the RCA video cable and set the progressive scan to "OFF" or press and hold **[SETUP]** for more than 3 seconds during DVD playback.

• When selecting "No" or not pressing any buttons on the unit or remote control within 15 seconds at step 3, progressive scan remains to be "OFF" (interlace scan).

2 | TV Aspect (Default: 4:3 Letter Box)

You can select the TV aspect ratio to match the formats of what you are playing back with the unit and your TV screen (4:3 standard or 16:9 widescreen TV).

Use [▲ / ▼] to select a setting, then press [OK].

General Setting	
Playback	
Display	Progressive Scan
Video	**TV Aspect**
Recording	
Clock	☑ 4:3 Letter Box
Reset All	☐ 4:3 Pan & Scan
	☐ 16:9 Wide

If you have a standard TV:
Select "4:3 Letter Box", so that black bars appear on the top and bottom of the TV screen when playing back a wide-screen picture. Select "4:3 Pan & Scan" for a full height picture with both sides trimmed when playing back wide-screen picture.

If you have a widescreen TV:
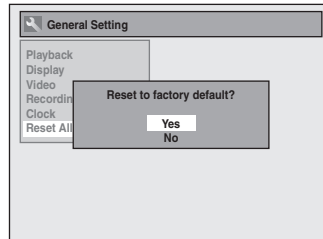Select "16:9 Wide".
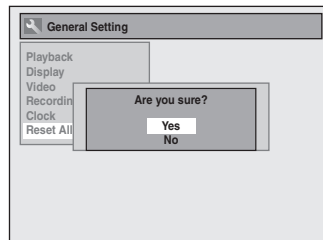
Reset All

Reset the setting to default.

1 **Press [SETUP] and use [▲ / ▼] to select "General Setting", then press [OK].**

"General Setting" menu will appear.

2 **Use [▲ / ▼] to select "Reset All", then press [OK].**

3 **Select "Yes" using [▲ / ▼] , then press [OK].**

General Setting
Playback
Display
Video
Recordin **Reset to factory default?**
Clock
Reset All **Yes**
No

4 **Select "Yes" again using [▲ / ▼] , then press [OK].**

General Setting
Playback
Display
Video
Recordin **Are you sure?**
Clock
Reset All **Yes**
No

Your setting in recording will be initialized.

STANDBY-ON

SOURCE TIMER SET DISPLAY OPEN/CLOSE

.@/: ABC DEF
1 2 3
GHI JKL MNO
4 5 6
PQRS TUV WXYZ
7 8 9
TIMER SPACE CLEAR
0

DISC MENU SETUP

▲

◄ OK ►

TITLE ▼ RETURN

TRACKING
– +

VCR DVD

REC REC MODE D.DUBBING AUDIO

CM SKIP SEARCH RAPID PLAY

MAGNAVOX

NB652

Note
- The settings listed below will remain unchanged even after resetting to the factory default.
– OSD language setting
– Clock setting
– Parental lock setting
– Timer programming information

VCR FUNCTIONS

Playback

VHS

1)Press [STANDBY-ON ⏻] on the remote control or the front panel of the unit.

When you are playing back a cassette tape, turn the TV on and be sure to select the input to which the unit is connected.

Press [VCR].

2)Insert a prerecorded cassette tape. Press [PLAY ▶] to begin playback.

3)During playback, press [PAUSE ⏸].

Playback will pause and sound will be muted.

4)Press [PLAY ▶] to resume playback.

5)Press [STOP ■] to stop playback.

6)Press [STOP ■ / EJECT ▲] on the front panel of the unit to eject the cassette tape.

Note

- When a cassette tape without erase-protection tab is inserted, the unit will start playback automatically.
- Tracking will be automatically adjusted upon playback. To adjust the tracking manually, press **[TRACKING + / —]**.

Recording

VHS

Press [VCR] first.

Before recording, make sure:

- The appropriate external input position (E1/E2) to which your external tuner is connected is selected by pressing **[SOURCE]**.
- There is a cassette tape with a erase-protection tab in the unit.
- The desired recording mode is selected in SP (standard playback) or SLP (super long playback) mode by pressing **[REC MODE]**.

Recording mode:

Tape speed	Recording / playback time		
Type of tape	T60	T120	T160
SP mode	1hour	2hours	2-2/3hours
SLP mode	3hours	6hours	8hours

• Refer to pages 26-29 for instructions on timer recording.

1)Press [REC ●] to begin the recording.

To temporarily stop recording or to resume it, press **[PAUSE ⏸]**. After the unit has been in pause mode for 5 minutes, it will stop automatically to protect the cassette tape and the video head from damage.

2)Press [STOP ■] when the recording is completed.

Accidental erasure prevention

To prevent accidental recording on a recorded cassette tape, remove its erase-protection tab. To record on it later, cover the hole with cellophane tape.

erase-protection tab
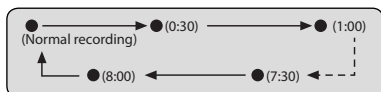
VCR FUNCTIONS

One-touch Timer Recording (OTR)

📼VHS

This feature allows you to set the recording length simply by pressing **[REC ●]** on the remote control.

Press [VCR] first.

1) During normal recording, press [REC ●] to begin the one-touch timer recording.

You can select a fixed recording time by pressing **[REC ●]** repeatedly.

When the one-touch timer recording is finished, the unit will turn off automatically.

To change the recording length during the one-touch timer recording, press **[REC ●]** repeatedly until the desired length appear.

To cancel the one-touch timer recording within the specified time, press **[STOP ■]**.

Note
- To see the remaining recording time on the TV screen during the one-touch timer recording, press **[DISPLAY]**.
- **You cannot pause the one-touch timer recording.**
- If VCR the one-touch timer recording is completed during DVD playback or recording, the VCR will be in stop mode and the DVD keeps the current mode.
- Unlike a timer recording, you can perform the following operations during the one-touch timer recording.
  - Turning off the power to stop one-touch timer recording.
  - Using **[REC ●]** or **[STOP ■]**.
- When the one-touch timer recording is finished and the power is turned off, the unit will switch to the standby mode automatically if a timer recording has been programmed. Press **[TIMER SET]** to cancel the standby mode for using the unit continuously.
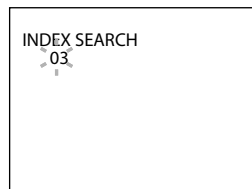
Index Search

📼VHS

An index mark will be assigned at the beginning of each recording you make. You may skip to a specific marked point by following the steps below.

Press [VCR] first.

1) Press [SEARCH] so that "INDEX SEARCH" menu appears.

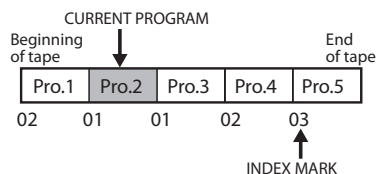**2) Using [the Number buttons], enter the number of recordings you wish to skip within 30 seconds.**

3) Press [◄◄], [►►] to start index search.

If you want to go in the forward direction, press **[►►]**.

If you want to go in the reverse direction, press **[◄◄]**.

After index search, the VCR will play back the cassette tape automatically.
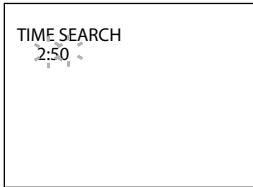

Note
- You can make the index mark up to 20.

Time Search

Op...

VHS

This feature allows you to go to a speci...
cassette tape by entering the exact am...
wish to skip in order to reach the point...

Press [VCR] first.

**1) Press [SEARCH] repeatedly so that ...
menu appears.**

**2) Using [the Number buttons], enter your d...
time to skip within 30 seconds.**

You can set the time up to 9:59.

```
TIME SEARCH
 2:50
```

3) Press [◄◄], [►►] to start time search.

If you want to go in the forward direction, press **[►►]**.
If you want to go in the reverse direction, press **[◄◄]**.
After time search, the unit will play back the cassette
tape automatically.

Note

- **Index search and time search are not available
during recording.**
- Press **[STOP ■]** to stop the search.
- If the end of the cassette tape is reached during
search, this unit will cancel the search and rewind the
cassette tape.

Int...

asic Setup

Recording

Playback

Editing

Function Setup

VCR Functions

Others

Español

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TROUBLESHOOTING

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
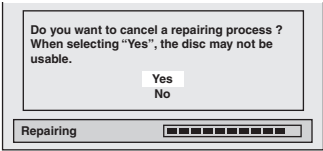
Symptom	Remedy
The power does not turn on.	• Check that the AC power cord is connected securely. • Check the breaker (in case of power failure). • Press **[TIMER SET]** to cancel the timer standby mode.
There is no picture.	• Re-connect the connecting cords securely. • Check if the connecting cords are damaged. • Check the connection to your TV (page 15). • Switch the input selector on your TV (such as to "E1") so that the signal from the unit appears on the TV screen.
Cannot record a TV program.	• This unit does not have a tuner to receive TV broadcasting. • You must connect this unit to an external tuner to record TV programs (page 13).
TV program pictures are distorted.	• Check if all the connections are made correctly.
Playback picture is distorted.	• Keep the device which may cause electrical disturbances, such as a cellular phone, away.
There is no sound.	• Re-connect all connections securely. • Check if the connecting cord is damaged. • Check the connections to the amplifier input. • Check if the input device setting on the amplifier is correct. • When the unit is in pause mode or in slow-motion playback mode, sound is not output. This is not a malfunction. • When the unit is in fast forward or fast reverse mode, sound is not output. This is not a malfunction.
Nothing was recorded even though you set the timer setting correctly.	• There was a power failure during recording. • The unit's internal clock stopped due to a power failure that lasted for more than 30 seconds. Reset the clock (page 21). • The program contains copy protection signals that restricts copying. • The timer setting overlapped with another setting that has priority.
Timer recording is not complete or did not start from the beginning.	• The timer setting overlapped with another setting that has priority (page 29). • Disc space was not enough.
Timer recording is impossible.	• Make sure ⏰ appears on the front panel display of this unit. If not, press **[TIMER SET]**.
The remote control does not function.	• Batteries are weak. • There are obstacles between the remote control and the unit. • The remote control is far from the unit. • There are no batteries in the remote control. • Check if the unit is turned on. • Check if you are pointing the remote control at the recorder and NOT the TV. If you have a plasma TV, it may interfere with the IR signal. Try the remote with the plasma off. If the remote works, you may need to move the unit away from the plasma TV. • Press **[DVD]** or **[VCR]**, whichever you need. Then, try again. • Press **[TIMER SET]** to cancel the timer standby mode.
The unit does not operate properly.	• When static electricity, etc., causes the unit to operate abnormally, unplug the unit and then plug it in again.

D
V
D
•
V
C
R

TROUBLESHOOTING

Symptom	Remedy
There is no picture.	• If the main menu appears on the TV screen, press **[RETURN]** to exit. • Check if the progressive scan mode is set correctly according to your TV (page 77).
Picture noise appears.	• Clean the disc with a cleaning cloth.
Playback picture from the external devices connected to this unit is distorted.	• If the picture output signal from the external devices passes through this unit to get to your TV, the copy protection signal applied to some DVD could affect the picture quality. Disconnect the playback device in question and connect it directly to your TV.
There is no sound.	• If you are using DIGITAL AUDIO OUTPUT (COAXIAL) jack, check the setting in "Disc Audio" (page 73). • Clean the disc with a cleaning cloth.
Sound is noisy.	• Clean the disc with a cleaning cloth.
No DTS sound is output.	• This unit is not compatible with DTS sound.
The disc does not play back.	• No disc is inserted. • A blank disc is inserted. • The disc is upside down. Insert the disc with the labeled side facing up. • The disc is not correctly inserted. • The unit cannot play back certain discs (such as a CD-ROM) (page 41). • The region code on the DVD-video does not match the unit (page 41). • Moisture has condensed inside the unit. Remove the disc and leave the unit turned on for about 2 hours until the moisture evaporates (page 4). • If the disc was recorded on another recorder, the unit cannot play back the disc if it was not finalized.
Discs recorded on this unit cannot be played back on other DVD players.	• If you are using DVD+R, DVD-RW/-R disc, please ensure you finalized the disc after recording (page 37).
The disc does not start playback from the beginning.	• Resume playback was activated (page 47). Press **[STOP ■]** twice. • You have inserted a disc whose title menu or DVD menu automatically appears on the TV screen when it is first insert.
The unit starts playing back the disc automatically.	• The DVD-video features an auto playback function.
Some functions such as stop, search, or slow-motion playback cannot be performed.	• Depending on the disc, you may not be able to do some of the operations. Refer to the manual supplied with the disc.
The language for the sound track cannot be changed.	• The title does not have the multilingual audio tracks. • The DVD-video prohibits the changing of the language for the sound track.
The subtitle language cannot be changed or turned off.	• Multilingual subtitle are not recorded on the DVD-video.
The angles cannot be changed.	• Multi-angles are not recorded on the DVD-video being played back. • The angle-change operation is whenever possible as long as the disc contains a multi-angle portion. Actual change will be performed when the portion has come up. • The DVD-video prohibits changing angles. • Try changing the angle using the DVD-video's menu.
Recording does not stop immediately after you press **[STOP ■]**.	• It may take a few seconds for the unit to input disc data before recording stops.
The disc tray does not open when you press **[OPEN/CLOSE ▲]**.	• It may take a few seconds for the disc tray to open after you have recorded or edited a disc. This is because the unit is adding disc data to the disc.

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TROUBLESHOOTING

Symptom	Remedy
DVD	
"Repairing" appears on the TV screen. Repairing ▭▭▭▭▭▭▭▭	• If there is a power failure or unplugging during recording, finalizing, formatting or editing (even after "Repairing" disappears), a repairing process will begin automatically just after turning the unit on again. It may take several minutes up to about several hours.
In a case you intend to cancel the repairing process. Do you want to cancel a repairing process ? When selecting "Yes", the disc may not be usable. Yes No Repairing ▭▭▭▭▭▭▭▭	• If you intend to cancel the repairing process, press **[OPEN/CLOSE ▲]** on the front panel, then select "Yes" and press **[OK]**. After that, press **[OPEN/CLOSE ▲]** to take out the disc. **The disc canceled during the repairing process MAY NOT work.**
VCR	
Picture noise appears.	• Head cleaning for VCR may be necessary. Refer to "Auto head cleaning" (page 5). • Adjust tracking control for better picture by pressing **[TRACKING ＋ / ─]** while you are playing back a cassette tape.
The cassette tape does not play back.	• No cassette tape is inserted.
Recording does not start after you press **[REC ●]**.	• Make sure the cassette tape has a erase-protection tab when you record to a cassette tape. If needed, cover the hole with cellophane tape.
The remote control does not function.	• Check if a cassette tape is in this unit.
The motor rotates even when playback / recording is stopped.	• The motor may rotate for the duration of approximately 5 minutes for efficient operation. This is not a malfunction.

TROUBLESHOOTING

Error message	Cause	Solution
Disc Error — Please eject the disc. — Playback feature may not be available on this Disc.	• Unplayable disc is inserted in the unit. • The disc is upside down.	• Insert the standardized disc which bear the marks on page 41. • Insert the disc with the labeled side facing up.
Region Error — Please eject the disc. — Playback is not authorized in your region.	• Playback is not authorized in the region of the DVD-video which you inserted in the unit.	• Insert the DVD-video with region codes 1 or ALL.
Parental Lock On The current selected parental level prohibits playback.	• The current selected parental level prohibits playback.	• Check "Parental Lock" setting in "Playback" menu (page 72).
Recording Error This program is not allowed to be recorded.	• The recording function encountered the copy prohibited program.	• You cannot record copy prohibited programs.
Recording Error This program is not recordable in +VR mode.	• You are trying to record the copy-once program.	• You cannot record the copy-once program.
Recording Error Can not record on this disc.	• You are trying to record onto the disc which is unrecordable, or the disc status is unable to record. • The disc is dirty. • The disc is damaged.	• Insert the recordable disc, and ensure the disc status satisfies the recording requirements (page 22). • Clean the disc with a cleaning cloth. • Replace the disc.
Recording Error This disc is protected and not recordable.	• You are trying to record on to the protected disc which is set in "Disc Edit" menu.	• Release the disc protect setting in "Disc Edit" menu (page 36).
Recording Error Disc is full. (No area for new recording)	• You are trying to record onto the disc which has no space for recording.	• Insert the recordable disc with enough recording space.
Recording Error You cannot record more than 49 titles on one disc. (The maximum is 49)	• You are trying to record onto the disc on which the number of recording titles comes up to the maximum (49).	• Delete unnecessary titles (page 57).
Recording Error You cannot record more than 254 chapters on one disc. (The maximum is 254)	• You are trying to record onto the DVD+RW or DVD-RW on which the number of recording chapters comes up to the maximum (254).	• Delete unnecessary chapter marks (pages 60-61).
Recording Error You cannot record on this disc as Power Calibration Area is full.	• When recordings are performed repeatedly onto an unstable disc, this area may come up to be full. • Every time you insert a disc for recording, the disc's working area will be taken up. And if you repeat this frequently, it will be used up sooner and you may not be able to record full 49 titles.	• Insert a new disc.
Recording Error This disc is already finalized.	• You are trying to record onto the disc already finalized.	• Release the finalizing for this disc (page 37).
Recording Error The disc has no recording compatibility. Set "Make Recording Compatible" to "ON" to convert the disc.	• You are trying to record onto the disc that had been recorded by other recorders.	• Set "Make Recording Compatible" to "ON" to rewrite the menu, after that you will record to disc (page 23).

* If you are still having trouble with the unit after checking "TROUBLESHOOTING", write down the error code and the error description for calling our help line mentioned on the front page to locate an Authorized Service Center.

Frequently Asked Questions

– Can I record to CD-RW/-R?

No, this unit records only DVD.

– Can I play back DVD-video that is bought in another country?

Possible when the region code of the disc is 1 and All.

– Can I connect the unit to my PC?

No, you cannot control the unit by PC.

– Can I program a timer recording with external tuner?

Yes, you can. Select "E1" or "E2" as your recording channel, and leave the external tuner on (pages 13, 26-29).

– Can I record one channel while watching another channel using an external tuner?

It depends on your connection configurations. For more details, please kindly contact at your local store.

– Can I change the channels on the external tuner using the remote control of this unit?

No. Changing the channels on the external tuner using this unit's remote control is not possible. You need to use the remote control supplied with the external tuner to change the channels on the external tuner.

LANGUAGE CODE

Language	Code
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian	4853
Burmese	5971
Byelorussian	4851
Cambodian	5759
Catalan	4947
Chinese	7254
Corsican	4961
Croatian	5464
Czech	4965
Danish	5047
Dutch	6058
English	5160
Esperanto	5161
Estonian	5166
Faroese	5261
Fiji	5256
Finnish	5255
French	5264
Frisian	5271
Galician	5358
Georgian	5747
German	5051
Greek	5158
Greenlandic	5758
Guarani	5360
Gujarati	5367
Hausa	5447
Hebrew	5569
Hindi	5455

Language	Code
Hungarian	5467
Icelandic	5565
Indonesian	5560
Interlingua	5547
Interlingue	5551
Inupiak	5557
Irish	5347
Italian	5566
Japanese	5647
Javanese	5669
Kannada	5760
Kashmiri	5765
Kazakh	5757
Kinyarwanda	6469
Kirghiz	5771
Kirundi	6460
Korean	5761
Kurdish	5767
Laothian	5861
Latin	5847
Latvian; Lettish	5868
Lingala	5860
Lithuanian	5866
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian	6061
Occitan	6149
Oriya	6164
Oromo (Afan)	6159
Panjabi	6247
Pashto; Pushto	6265
Persian	5247
Polish	6258
Portuguese	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian	6461

Language	Code
Russian	6467
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560
Sindhi	6550
Singhalese	6555
Siswat	6565
Slovak	6557
Slovenian	6558
Somali	6561
Spanish	5165
Sundanese	6567
Swahili	6569
Swedish	6568
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish	6664
Turkmen	6657
Twi	6669
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267

GLOSSARY

Analog Audio
An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

Aspect Ratio
The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as it is high).

Chapter
Just as a book is split up into several chapters, a title on a DVD is usually divided into chapters. See also "Title".

Component Video Output
Each signal of luminance (Y) and component (P_B/C_B, P_R/C_R) is independent to output so that you can experience picture color as it is.
Also, due to compatibility with progressive video (525p/480p), you can experience higher-density picture than that in interlace (525i/480i).

Digital Audio
An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

Dolby Digital
The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo(2ch) or multi channel audio.

Finalize
To make DVD, which have been recorded on, possible to play back in DVD players. With this unit, it is possible to finalize DVD+R, DVD-RW, and DVD-R.

MP3 (MPEG audio layer 3)
MP3 is a method of compressing files. You can copy MP3 files on CD-RW/-R from the computer and play back the files on this unit.

PBC (playback control) (video CD only)
This function enables you to play back interactive software using a menu screen. See also "Video CD".

PCM (pulse code modulation)
The most common system of encoding digital audio, found on CD and DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (CD, MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also "Digital Audio".

Progressive Scan (525p/480p)
A type of display that does not split each frame into fields, and instead scans directly through all the scanlines of each frame in order. Progressive scan provides less flickering and higher image resolution than traditional (525i/480i) TV signals. Refer to page 77 for instructions on selective progressive scan mode.

Region Code
Regions associate discs and players with particular areas of the world. This unit will only play back discs that have compatible region codes. You can find the region code of your unit by looking on the rear panel. Some discs are compatible with more than one region (or all regions).

Sampling Frequency
The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

S-Video Output
It delivers independently each signal of color(C) and luminance(Y) to TV as video signals, so that higher-quality picture will be gained.

Title (DVD only)
A collection of chapters on DVD. See also "Chapter".

Track
Audio CD use tracks to divide up the content of a disc. The DVD equivalent is called a chapter. See also "Chapter".

Video CD
A digital format for store video data in compact disc.

SPECIFICATIONS

General	
System	DVD+RW/+R, DVD-RW/-R, DVD-video, CD-DA, Video CD, CD-RW/-R VHS cassette tape
VCR video heads	Four heads
Power requirements	120V AC +/-10%, 60Hz +/-5%
Power consumption	30W (standby: 3.3W)
Dimensions (width x height x depth)	17 $^3/_{16}$ x 3 $^{15}/_{16}$ x 10 $^1/_4$ inches (435 x 99.5 x 260mm)
Weight	9.5 lbs. (4.3kg)
Operating temperature	41°F (5°C) to 104°F (40°C)
Operating humidity	Less than 80% (no condensation)

Recording	
Recording format	+VR (video recording) format
Recording discs	DVD+Rewritable, DVD+Recordable DVD-Rewritable, DVD-Recordable (+VR mode only)

Video recording format	
Sampling frequency	13.5 MHz
Compression format	MPEG

Audio recording format	
Sampling frequency	48 kHz
Compression format	Dolby Digital

Terminals		
Front	**Audio input** RCA jack x 2	2V rms (input impedance: more than 22kΩ)
	Video input RCA jack x 1	1Vp-p (75Ω)
	S-video input Mini DIN 4-pin x 1	Y: 1Vp-p (75Ω) C: 286mVp-p (75Ω)
Rear	**Audio input** RCA jack x 2	2V rms (input impedance: more than 22kΩ)
	Audio output RCA jack x 4	2V rms (output impedance: more than 1kΩ)
	Video input RCA jack x 1	1Vp-p (75Ω)
	Video output RCA jack x 1	1Vp-p (75Ω)
	S-video input Mini DIN 4-pin x 1	Y: 1Vp-p (75Ω) C: 286mVp-p (75Ω)
	S-video output Mini DIN 4-pin x 1	Y: 1Vp-p (75Ω) C: 286mVp-p (75Ω)
	Component video output RCA jack x 3	Y: 1Vp-p (75Ω) P_B/C_B: 700mVp-p (75Ω) P_R/C_R: 700mVp-p (75Ω)
	Coaxial digital audio output RCA jack x 1	500mVp-p (75Ω)

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

VCR Functions

Others

Español

Note
• The specifications and design of this product are subject to change without notice.

ESPAÑOL

Discos Reproducibles

Este aparato es compatible con la reproducción de los siguientes discos y archivos.

Discos reproducibles	Logotipos	
DVD-video		
DVD+RW		
DVD+R		
DVD-RW (Sólo discos en modo de video finalizados)		
DVD-R (Sólo discos en modo de video finalizados)		
CD-DA (CD de audio)		
CD de video		
CD-RW		
CD-R		

Archivos reproducibles	Medio
CD-DA	CD-RW/-R
MP3	

 es una marca registrada de DVD Format/Logo Licensing Corporation.

Códigos de Región

El número presente en el interior el globo se refiere a una región del mundo.Este aparato puede reproducir discos DVD que estén rotulados para ALL las regiones o para la región 1.

Disco Grabable

Este aparato puede grabar a DVD+RW, DVD+R, DVD-RW y DVD-R.
Los discos DVD+R/DVD-R pueden ser grabados sólo una vez. Los discos DVD+RW/DVD-RW pueden ser grabados y borrados muchas veces.

En este aparato los discos DVD-RW/-R serán grabados automáticamente en el modo DVD+VR.

• Los siguientes discos se recomiendan para obtener una buena calidad de grabación y han sido comprobados como compatibles con este aparato. Sin embargo, según sea la condición del medio el equipo podría no leer el disco correctamente.

Verbatim	DVD+R 8x, DVD-R 8x,	DVD+RW 4x, DVD-RW 2x
JVC	DVD-RW 4x	
Maxell	DVD+R 4x/8x/16x,	DVD-R 8x/16x
SONY	DVD+R 4x/8x/16x,	DVD+RW 4x
TDK	DVD+R 4x/8x/16x	

El comportamiento de cualquier otro disco no está garantizado.

• **Usted puede reproducir discos DVD+RW en la mayoría de los reproductores de DVD sin finalizarlos. Sin embargo, si usted ha añadido o eliminado capítulos, u ocultado capítulos, debe ejecutar "Compatibilizar edic." antes de poder ver dichos efectos en otros equipos. (Consulte la página 68.) Para reproducir discos que no sean DVD+RW en otros reproductores de DVD, usted necesitará finalizarlos.**

Logotipo	Atributos
DVD+RW **DVD+R** **DVD-RW** **DVD-R**	Disco de 8 cm / 12 cm, un solo lado, una sola capa Tiempo de grabación máx. aprox. (modo SLP): 360 minutos (4,7 GB) (para 12 cm) 108 minutos (1,4 GB) (para 8 cm)

Disco no Grabable

• Un DVD-RW grabado en un modo distinto de +VR no será grabable en este aparato a menos que usted borre todo el contenido del disco. (Consulte la página 67.)
• Un DVD-R grabado en un modo distinto de +VR no será grabable en este aparato.
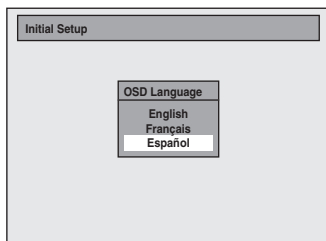
ESPAÑOL

Configuración Inicial

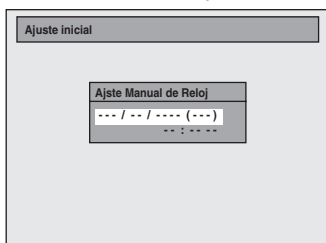Cuando usted encienda este aparato por primera vez necesita seguir estos pasos.

1 **Presione [STANDBY-ON ⏻].**

Encienda el televisor. Seleccione la entrada a la cual está conectado el aparato.

2 **Utilice [▲ / ▼] para seleccionar su idioma deseado, y luego presione [OK] para establecerlo.**

```
Initial Setup


        OSD Language
        English
        Français
        Español
```

3 **Presione [OK] para activar "Ajste Manual de Reloj".**

```
Ajuste inicial


        Ajste Manual de Reloj
        --- / -- / ---- (---)
                   -- : -- --
```

4 **Utilice [◄ / ►] para seleccionar un elemento a configurar, y utilice [▲ / ▼] para seleccionar el contenido de su preferencia, y luego presione [OK].**

```
Ajuste inicial


        Ajste Manual de Reloj
        ENE / 01 / 2007 ( LUN )
                      12 : 00 AM
```
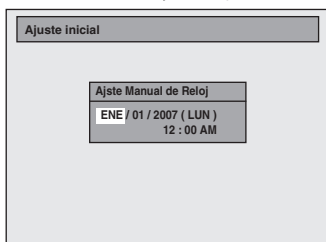
Grabación Básica

1 **Presione [DVD]. Presione [OPEN/CLOSE ▲] para abrir la bandeja de discos e insertar su disco con el rótulo aupntando hacia arriba.**

* Asegúrese de que el disco sea compatible con este aparato.(Para obtener la lista de discos compatibles consulte la página 22.)
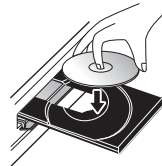
**2** **Para seleccionar un modo de grabación presione [REC MODE].**

```
                    SP(2Hr)  ◖  0:58
```
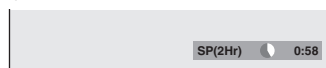
| Modo de grabación	Tiempo de grabación		Calidad del video y el sonido
	Disco de 8 cm	Disco de 12 cm	
HQ (1Hr)	18 min	60 min	Buena
SP (2Hr)	36 min	120 min	↑
SPP (2.5Hr)	45 min	150 min	
LP (3Hr)	54 min	180 min	↓
EP (4Hr)	72 min	240 min	
SLP (6Hr)	108 min	360 min	Deficiente

3 **Presione [SOURCE] para seleccionar la posición adecuada de la entrada externa (E1/E2) a la cual está conectado su sintonizador externo. Luego seleccione en el sintonizador externo el canal que desea grabar.**

4 **Presione [REC ●] para iniciar la grabación.**

Para configurar la grabación a un toque con temporizador (OTR)...

Esta es una manera sencilla de configurar el tiempo de grabación en bloques de 30 minutos.
Presione **[REC ●]** repetidamente hasta que aparezca en la pantalla del televisor la longitud deseada de grabación (30 minutos a 6 horas).
Comenzará la grabación a un toque con temporizador.

```
        ●  0:30


                   0:30

(grabación normal)        1:00


        6:00              5:30
```
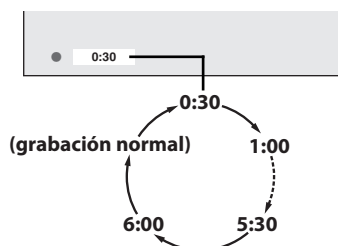
• Para cancelar la grabación a un toque con temporizador dentro del tiempo especificado, presione **[STOP ■]**.

5 **Para de tener la grabación presione [STOP ■].**

ESPAÑOL

Introduction

Connections

Basic Setup

Recording

Playback

Editing

Function Setup

VCR Functions

Others

Español

Grabación con Temporizador

Usted puede programar el equipo para que grabe hasta 12 programas, con un mes de anticipación. También hay disponibles grabaciones de programas diarias o semanales.

Antes de grabar, asegúrese de que

• Cuando llegue el momento en que desea empezar a grabar, conecte el sintonizador externo a ya sea E1 o E2 y configúrelo para dar salida a las señales de audio/video.
• No cambie el canal del sintonizador externo cuando esté grabando. Usted no puede mirar un canal y grabar otro al mismo tiempo.
• Antes de establecer una programación del temporizador configure el reloj.
• Inserte un disco grabable con suficiente espacio libre.
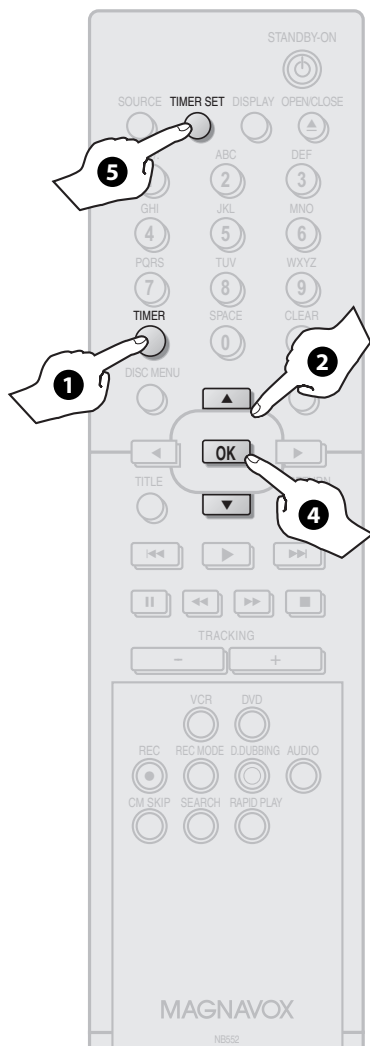
1 Presione [TIMER].

2 Utilice [▲ / ▼] para seleccionar "Prog. nuevo", y luego presione [OK].

Programaci. con Reloj
🕐 LUN ENE/01 11:00AM
Fcha	Empieza	Termina	E1/E2
	Prog. nuevo		
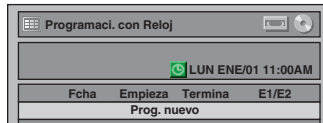
3 Configure una programación del temporizador.

4 Presione [OK].

5 Presione [TIMER SET] para configurar una programación del temporizador.
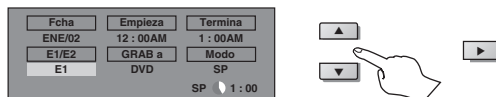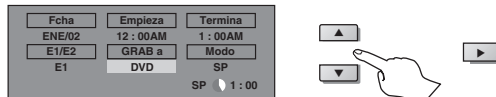Aparecerá 🕐 en el pantalla del panel frontal.

Configure la fecha.

Fcha	Empieza	Termina
ENE/02	- - : - -	- - : - -
E1/E2	GRAB a	Modo
E1	DVD	SP
		SP 🕐 2 : 00

Configure las horas de inicio y finalización.

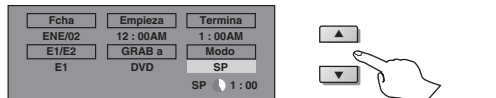| Fcha	Empieza	Termina
ENE/02	12 : 00AM	- - : - -
E1/E2	GRAB a	Modo
E1	DVD	SP
		SP 🕐 2 : 00

Seleccione la posición adecuada de la entrada externa (E1/E2) a la cual está conectado su sintonizador externo.

Fcha	Empieza	Termina
ENE/02	12 : 00AM	1 : 00AM
E1/E2	GRAB a	Modo
E1	DVD	SP
		SP 🕐 1 : 00

Seleccione un medio de grabación ("DVD" o "VCR").

Fcha	Empieza	Termina
ENE/02	12 : 00AM	1 : 00AM
E1/E2	GRAB a	Modo
E1	DVD	SP
		SP 🕐 1 : 00

Seleccione un modo de grabación.

Fcha	Empieza	Termina
ENE/02	12 : 00AM	1 : 00AM
E1/E2	GRAB a	Modo
E1	DVD	SP
		SP 🕐 1 : 00

Reproducción

1 Abra la bandeja de discos.
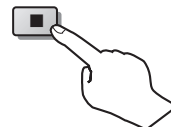OPEN/CLOSE

2 Inserte un disco.
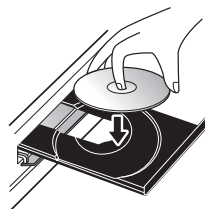
3 Comience a reproducir.
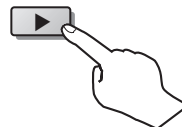
4 Detenga la reproducción.

MEMO

MEMO

MAGNAVOX
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DURATION:

PARTS: FUNAI CORP. will provide parts to replace defective parts without charge for one (1) year from the date of original retail purchase. Certain parts are excluded from this warranty.

LABOR: FUNAI CORP. will provide the labor without charge for a period of ninety (90) days from the date of original retail purchase.

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IMPORTANT:

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